

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) Regular EXAMINATION**  
**THIRD SEMESTER**

**MG3MPCREM200 - Introduction to solar cells**  
**and applications (2025 ADMISSION**  
**ONWARDS)**

**Duration: 1.5hr**

**Maximum Marks:50**

**Rememder(K) , *Understand(U)*, *Apply(A)*, *Analyse(An)*, *Evaluate( E )*, *Create(C)*,  
*Skill(S)*, *Interest(I)* and *Appreciation(Ap)***

**PART A**  
***Short answer***  
***Answer any 15 questions***  
***Each question carries 1 marks***

1. Define the term solar constant. [CO1- K, U]
2. Identify the main components of solar radiation reaching the Earth's surface. [CO1- K, U]
3. State the approximate wavelength ranges of solar radiation. [CO1- K, U]
4. Mention any two limitations of solar energy. [CO1- K, U]
5. Identify the semiconductor material commonly used in commercial solar cells. [CO2-U, An]
6. Define the photovoltaic effect in a solar cell. [CO2-U, An]
7. State the function of the PN junction in a solar cell. [CO2-U, An]
8. Define the fill factor of a solar cell. [CO2-U, An]
9. Identify the semiconductor material used in CdTe thin-film solar cells. [CO3-U, An]
10. State the full form of CIGS used in thin-film solar cells. [CO3-U, An]
11. Mention the absorber material used in perovskite solar cells. [CO3-U, An]
12. Identify one emerging solar cell technology based on organic materials. [CO3-U, An]
13. Identify the type of solar PV system commonly used for electricity generation in solar farms. [CO4-A, Ap, S]
14. State one application of solar energy in residential buildings. [CO4-A, Ap, S]
15. Mention any two off-grid solar applications. [CO4-A, Ap, S]

16. Define a grid-connected solar PV system. [CO4-A, Ap, S]
17. Identify one major component of a grid-connected solar PV system. [CO4-A, Ap, S]

## **PART B**

### ***Short Essay***

***Answer any 3 questions***

***Each question carries 5 marks***

18. Explain the properties of solar radiation and distinguish between direct and diffuse radiation. [CO1- K, U]
19. Discuss the solar spectrum and explain the different regions of the solar spectrum. [CO1- K, U]
20. Explain the working principle of a solar cell based on the photovoltaic effect and PN junction formation. [CO2-U, An]
21. Compare crystalline silicon and thin-film solar cells with respect to materials, construction, efficiency, advantages, and applications. [CO3-U, An]
22. Explain the applications of solar energy in homes and buildings, solar-powered lighting and gadgets, and off-grid systems such as solar pumps and chargers. [CO4-A, Ap, S]

## **PART C**

### ***Essay***

***Answer any two questions***

***Each question carries 10 marks***

23. Explain solar energy in detail, including its advantages, limitations, major applications, and its role in meeting future energy demands. [CO1- K, U]
24. Explain the I–V characteristics of a solar cell and discuss the efficiency and various factors affecting its performance. [CO2-U, An]
25. Explain the different types of solar cell technologies, including crystalline silicon, thin-film (CdTe, CIGS, and a-Si), and emerging technologies such as perovskite, organic, and dye-sensitized solar cells, highlighting their working principles, advantages, limitations, and applications. [CO3-U, An]
26. Explain the working and applications of grid-connected and off-grid solar PV systems, including solar panels for homes and buildings, solar farms, solar-powered lights and gadgets, and solar-powered pumps and chargers. [CO4-A, Ap, S]

MGU-BVOC (HONOURS) Regular EXAMINATION October 2026

THIRD SEMESTER

BVOC (HONOURS) AGRICULTURE TECHNOLOGY

MG3SDCBAT200-PLANTATION CROPS ,SPICES AND FRUITS

TIME:2 Hr

TOTAL MARKS:70

**Part A**

Short Answer

Answer any 10 questions

Each question carries 2 marks

1. List out the names of plantation crops cultivating in Kerala with their importance.(K) CO1
2. Write down the parentage of Chandrasankara.(K) CO1
3. What is tapping panel dryness?(K) CO1
4. Give the names of two Cashew varieties.(U) CO2
5. What is the propagating material of Tea?(U) CO2
6. Name two varieties of Black pepper.(A)CO3
7. What is the seed rate and spacing followed in Ginger?(A). CO 3
8. What is the scientific name and family of Nutmeg?(A) CO 3
9. What is the inflorescence of Mango?( An) CO 4
10. How to induce flowering in Pineapple?(An)CO4
11. Write the scientific name and family of Litchi.(An) CO4
12. Suggest measures to improve the productivity of plantation crops.(K) CO 1

**(10\*2=20)**

**PART B**

Short essay

Answer any 4 questions

Each question carries 5 marks

13. Write a short note on scope and importance of plantation crops.(K) CO1
14. Describe briefly about training and pruning in Tea. (U) CO2
15. Write a short note on classification of spices.(A) CO3
16. Differentiate between white pepper and green pepper.(A)CO 3

17. Discuss in brief about the sex expression in Nutmeg. (A) CO 3

18. What are the different propagation techniques followed in Pineapple. (An) CO 4

**(4\*5=20)**

### PART C

#### Essay

Answer any 2 questions

Each question carries 15 marks

19. Kerala is known as 'Land of spices'. Discuss the scope, importance and constraints of spice industry. (A) CO3

20. Explain in detail about cultivation practices followed in Cardamom. (A) CO 3

21. Discuss the management practices of Mangosteen. (An) CO4

22. Discuss the cultivation practices of Coffee (U) CO 2

**(15\*2=30)**

**QP CODE:**

**Reg.No :** .....

**Name :** .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) REGULAR EXAMINATION October 2026**  
**Third semester**  
**SDC - MG3SDCTHM202 – Tour packaging and itinerary preparation**  
**(2025 Admission Onwards)**

**Duration: 1 1/2 hrs**

**Maximum Marks: 50**

***Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I) and Appreciation(Ap)***

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**Part A**

Short Answer Question

Answer any 5 questions

Each question carries 2 marks

- |                                                                                                    |                    |
|----------------------------------------------------------------------------------------------------|--------------------|
| 1. Define an itinerary. Explain any four types of itineraries?                                     | [Remember] / [CO1] |
| 2. Define tour cost and explain any four major components of tour cost?                            | [Remember] / [CO2] |
| 3. List and briefly explain any five factors affecting tour cost?                                  | [Remember] / [CO4] |
| 4. What is a tour cost sheet? State its significance in tour planning?                             | [Remember] / [CO4] |
| 5. What is tour pricing? Explain the basic principles involved in calculating the price of a tour? | [Remember] / [CO4] |
| 6. Define cost-plus pricing and market-based pricing. Mention two differences between them?        | [Remember] / [CO4] |
| 7. Explain any five types of media used for tourism promotion?                                     | [Analyse] / [CO2]  |

**[2x5 = 10]**

## **Part B**

Short Essay Question

Answer any **5** questions

Each question carries **5** marks

- |                                                                                                                                                |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 8. Explain the meaning and different types of itineraries. Describe the steps involved in preparing an effective itinerary?                    | [Analze] / [CO1]     |
| 9. Explain the meaning of tour cost and discuss the various components and types of tour costs?                                                | [Analze] / [CO4]     |
| 10. Explain the major factors that influence the cost of a tour package?                                                                       | [Analze] / [CO4]     |
| 11. Explain the meaning, major elements and significance of a tour cost sheet?                                                                 | [Analze] / [CO4]     |
| 12. Describe the various steps involved in preparing a package tour?                                                                           | [Understand] / [CO2] |
| 13. Explain the concepts of cost-plus pricing and market-based pricing. Discuss their advantages and limitations in tour package pricing?      | [Analze] / [CO4]     |
| 14. Explain seasonal pricing, dynamic pricing, psychological pricing and value-based pricing with suitable examples from the tourism industry? | [Analze] / [CO4]     |

**[5x5 = 25]**

## **Part C**

Long Essay Question

Answer any **1** questions

Each question carries **15** marks

- |                                                                                                                                                                                          |                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 15. Define revenue optimization and explain the role of demand forecasting, pricing optimization, inventory management and market segmentation in maximizing revenue from tour packages. | [Remember] / [CO4] |
| 16. Define package tour and explain its components. Describe in detail the various steps involved in designing and preparing a successful package tour.                                  | [Remember] / [CO2] |
| 17. Define a tour cost sheet and explain in detail its preparation, major components and significance in determining the selling price of a tour package?                                | [Remember] / [CO4] |

**[15x1 = 15]**

QP Code

Reg.No : .....

Name : .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**MGU-BVOC (HONOURS) Regular EXAMINATION, October 2026**

**Third SEMESTER**

**Skill Development Components (SDC) – MG3SDCFTA200 – FOOD SAFETY**

**PRE-REQUISITES**

**(2025 ADMISSION ONWARDS)**

**Duration: 2 Hours**

**Maximum Marks: 70**

***Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I)  
and Appreciation(Ap)***

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**Part A**

Answer in One or two Sentences

Answer any **10** questions

Each question carries **2** marks

- |                                                                       |             |
|-----------------------------------------------------------------------|-------------|
| 1. Define prerequisite programmes.                                    | [K] / [CO1] |
| 2. List any two criteria for selecting approved suppliers.            | [K] / [CO1] |
| 3. State two requirements of good building layout in a food industry. | [K] / [CO1] |
| 4. Define equipment calibration.                                      | [K] / [CO2] |
| 5. List any two essential utilities required in a food industry.      | [K] / [CO2] |
| 6. State the purpose of preventive maintenance.                       | [K] / [CO2] |
| 7. Define FEFO.                                                       | [K] / [CO3] |
| 8. List any two methods of allergen identification and communication. | [K] / [CO3] |
| 9. State two personal hygiene requirements for food handlers.         | [U] / [CO3] |
| 10. Define integrated pest management.                                | [K] / [CO4] |
| 11. State the purpose of a traceability system.                       | [U] / [CO4] |
| 12. Define food defense.                                              | [K] / [CO4] |

**[2x10 = 20]**

### **Part B**

Short Essay type Questions  
Answer any **6** Questions  
Each question carries **5** mark

13. Explain the importance of prerequisite programmes in food safety. [U] / [CO1]
14. Describe the principles of good design, construction and layout of food industry buildings. [U] / [CO1]
15. Explain the requirements for managing water, air, energy and other utilities in a food industry. [U] / [CO2]
16. Describe the importance of equipment calibration, preventive maintenance and good housekeeping. [U] / [CO2]
17. Distinguish between FIFO and FEFO in store management. [U] / [CO3]
18. Explain the control measures for allergens and rework to prevent contamination. [U] / [CO3]
19. Describe the methods of cleaning and disinfection and the role of sanitation chemicals. [U] / [CO4]
20. Explain labelling, traceability and recall procedures in food safety management. [U] / [CO4]

**[5x6 = 30]**

### **Part C**

Essay type Questions  
Answer any **2**  
Questions  
Each question carries **10** mark

21. Explain in detail the requirements of prerequisite programmes covering approved suppliers, building design, construction, layout and suitable facilities. [U] / [CO1]
22. Explain the management of equipment, calibration, utilities, preventive maintenance and good housekeeping in a food industry. [U] / [CO2]
23. Explain the management of purchased materials, store management, stock rotation, allergen control, rework, waste management and personal hygiene. [U] / [CO3]
24. Explain cleaning and disinfection, pest management, labelling, traceability, recall, contingency planning, training, food defense, bio-vigilance and bioterrorism control. [U] / [CO4]

**[10x2 = 20]**

**QP CODE:**

**Reg. No.....**

**Name: .....**

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM  
MGU-BVOC (HONOURS) REGULAR EXAMINATION, APRIL 2026**

**Second Semester**

**MPC – MG3MPCHBM200 - Sales Management in Tourism and Hospitality (2025  
Admission Onwards)**

**Duration: 1.5 hrs**

**Maximum Marks: 50**

**Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C),  
Skill(S), Interest(I) and Appreciation(Ap)**

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**Part A**

**Answer any 5 questions  
Each question carries 2 marks**

1. Define sales management. (*Remember – CO1*)
2. State two limitations of personal selling. (*Remember – CO4*)
3. List any two objectives of sales promotion.. (*Remember – CO2*)
4. State two reasons for the significance of sales promotion. (*Remember – CO2*)
5. Name any two sales promotion tools. (*Remember – CO2*)
6. State two objectives of managing tourism sales promotion. (*Remember – CO2*)
7. List any two tourism sales channels. (*Remember – CO5*)

**Part B**

**Answer any 5 questions  
Each question carries 5 marks**

8. Explain the major functions of sales management. (*Understand – CO1*)
9. Discuss the role of personal selling in marketing products and services. (*Understand – CO4*)
10. Explain the meaning and characteristics of sales promotion. (*Understand – CO2*)
11. Explain the role of travel agents and tour operators as tourism sales channels. (*Understand – CO3*)
12. Discuss different types of sales presentation. (*Understand – CO4*)
13. Briefly explain the elements of personal selling. (*Understand – CO4*)
14. Explain the major responsibilities of a sales manager. (*Understand – CO1*)

**Part C**  
**Answer any 1 question**  
**Each question carries 15marks**

15. Analyse the major functions performed by a sales manager in an organisation. (*Remember – CO1*)
16. Discuss the role of sales promotion in tourism during off-season periods. (*Analyse – CO2*)
17. Evaluate the unique challenges faced by tourism salespersons compared with product salespersons. (*Evaluate – CO4, CO5*)

**MAHATMA GANDHI UNIVERSITY**  
**B.VOC TOURISM AND HOSPITALITY MANAGEMENT**  
**SEMESTER 3**  
**MG3SDCTHM201 TOURISM MARKETING**

Time: 1.5 Hrs.

Total marks: 50

Part A.

(5x2 =10 marks)

Answer any 5 questions. Each question carries 2-marks

- 1.Explain the term 'Process' as an extended element of the service marketing mix in tourism.
2. Briefly outline how marketing thought evolved from the Production Concept to the Modern Marketing Concept.
3. Apply demographic and psychographic segmentation criteria to target luxury adventure tourists.
4. Illustrate how destination branding can be applied to position an eco-tourism village.
- 5.Distinguish between the 'Maturity' and 'Decline' stages of a destination's Product Life Cycle.
- 6.Assess why 'Idea Screening' is a critical filter stage in the new tourism product development process.
7. Analyse how Search Engine Optimization (SEO) improves organic discovery for tour operators.

Part B.

(5x5 = 25 marks)

Answer any 5 questions. Each question carries 5 marks

- 8.Discuss how the interactive relationship between 'People' and 'Process' influences customer satisfaction in high-end resort operations.
- 9.Apply the destination marketing mix to formulate a targeted promotion strategy for a newly established cultural heritage circuit.
- 10.Demonstrate how a destination management organization (DMO) can build a cohesive destination brand identity using digital media assets.
- 11.Evaluate the key risk factors and failure reasons during the commercialization phase of new experiential tourism products.
- 12.Critically evaluate the effectiveness of Integrated Marketing Communications versus traditional single-channel advertising for cruise tourism.
- 13.Analyze current trends in Green Marketing and evaluate their impact on reducing greenwashing claims among eco-resorts.
- 14.Analyse the role of Direct Marketing and Social Media Marketing in driving repeat bookings for travel firms.

Part C.

( 1 x 15 = 15 marks)

Answer any 1 question, carries 15 marks

15. Explain the Product Life Cycle (PLC) concept. Discuss the marketing strategies appropriate for each stage of the PLC.

16. Briefly outline marketing strategies for the promotion of a tourist destination.

17. Evaluate how the emerging platforms enhance consumer engagement, audience targeting, and measurable Return on Investment.

**MGU-BVOC (HONOURS) REGULAR EXAMINATION OCTOBER 2026**  
**THIRD SEMESTER**  
**BVOC (HONOURS) AGRICULTURE TECHNOLOGY**  
**MG3SDCBAT202- FUNDAMENTALS OF ORGANIC FARMING (MODEL QUESTION PAPER-THEORY)**

**Part A**

Short Answer

Answer any 5 questions

Each question carries 2 marks

**Time: 1.30 hr**  
**marks:50**

**Maximum**

- |                                                                                                              |                         |
|--------------------------------------------------------------------------------------------------------------|-------------------------|
| 1. Define sustainable agriculture?                                                                           | [K] CO1                 |
| 2. What is organic farming?                                                                                  | [U] CO2                 |
| 3. What is biological control of pest                                                                        | [A] CO3                 |
| 4. What is permaculture?                                                                                     | [K] CO1                 |
| 5. What are the major factors affecting the ecological balance and sustainability of agricultural resources? | [K] CO1                 |
| 6. Name the parasitoid which is used against coconut black headed caterpillar                                | [A] CO3                 |
| 7. List out the components of organic farming                                                                | [U] CO2 <b>[2*5=10]</b> |

**Part B**

Short Essay

Answer any 5 questions

Each question carries 5 marks

- |                                                                                     |        |
|-------------------------------------------------------------------------------------|--------|
| 8. Write about the four agronomical measures used for soil and water conservation ? | [U]CO2 |
| 9. What is conventional agriculture and what are its advantages and disadvantages?  | [K]CO1 |
| 10. Write a short note on entomopathogenic fungi (EPF)                              | [A]CO3 |
| 11. Write down the preparation of tobacco decoction?                                | [A]CO3 |
| 12. What is LEISA? What are the characteristic features of LEISA?                   | [K]CO1 |
| 13. Discuss about the brush wood check dam and geo textiles ?                       | [U]CO2 |
| 14. Write shortly about the operational structure of NPOP                           | [A]CO3 |

**[5\*5=25]**

**Part C**

Essay

Answer any 1 question

Each question carries 15 marks

15. Describe about the preparation of FYM and vermicompost ? [U]CO2

16. Discuss in detail about the principle, objectives and basic elements of sustainable agriculture

[K]CO1

**[15\*1=15]**

**MGU-BVOC (HONOURS) REGULAR EXAMINATION OCTOBER 2026**  
**THIRD SEMESTER**  
**BVOC (HONOURS) AGRICULTURE TECHNOLOGY**  
**MG3MPCBAT200 - FUNDAMENTALS OF ORGANIC FARMING (MODEL QUESTION PAPER-THEORY)**

**Part A**

Short Answer

Answer any 5 questions

Each question carries 2 marks

**Time: 1.30 hr**  
**marks:50**

**Maximum**

- |                                                                                                              |     |                 |
|--------------------------------------------------------------------------------------------------------------|-----|-----------------|
| 1. Name the parasitoid which is used against coconut black headed caterpillar                                | [A] | CO3             |
| 2. What is biological control of pest                                                                        | [A] | CO3             |
| 3. Define sustainable agriculture?                                                                           | [K] | CO1             |
| 4. List out the components of organic farming                                                                | [U] | CO2             |
| 5. What is organic farming?                                                                                  | [U] | CO2             |
| 6. What is permaculture?                                                                                     | [K] | CO1             |
| 7. What are the major factors affecting the ecological balance and sustainability of agricultural resources? | [K] | CO1             |
|                                                                                                              |     | <b>[2*5=10]</b> |

**Part B**

Short Essay

Answer any 5 questions

Each question carries 5 marks

- |                                                                                      |     |     |
|--------------------------------------------------------------------------------------|-----|-----|
| 8. What is LEISA? What are the characteristic features of LEISA?                     | [K] | CO1 |
| 9. Write shortly about the operational structure of NPOP                             | [A] | CO3 |
| 10. Write about the four agronomical measures used for soil and water conservation ? | [U] | CO2 |
| 11. Write a short note on entomopathogenic fungi (EPF)                               | [A] | CO3 |
| 12. What is conventional agriculture and what are its advantages and disadvantages?  | [K] | CO1 |
| 13. Write down the preparation of tobacco decoction?                                 | [A] | CO3 |
| 14. Discuss about the brush wood check dam and geo textiles ?                        | [U] | CO2 |

**[5\*5=25]**

**Part C**

Essay

Answer any 1 question

Each question carries 15 marks

15. Describe about the preparation of FYM and vermicompost ? [U]CO2

16. Discuss in detail about the principle, objectives and basic elements of sustainable agriculture

[K]CO1

**[15\*1=15]**

**MODEL QUESTION PAPER**  
**B.VOC (HONOURS) BROADCASTING AND JOURNALISM**  
**MG3SDCBAJ201 - DIGITAL AUDIO PRODUCTION: RADIO**  
**PRODUCTION AND PODCASTING**  
**2025 –ONWARD**

**PART A**

Short Answer Questions

Answer All Question

Each Question Carries 1 mark

1. Define AM and FM in the context of radio broadcasting.
2. List any two major types of podcasts
3. Explain is the primary function of a microphone in radio broadcasting
4. Explain acoustics in a studio environment
5. Identify the primary purpose of audience analysis in programming.
6. Name two common programming formats used in radio broadcasting.
7. State the difference between echo and reverb
8. State any two core principles of radio news
9. Explain the term news pool
10. Identify the main function of a newsroom

**PART B**

Short Essay Questions

Answer any 5 Question

Each Question Carries 5 mark

11. Explain the significance of radio as a mass communication medium
12. Discuss the key characteristics of radio that make it unique compared to print media
13. Explain how streaming platforms differ from standard broadcast platforms in delivering audio content.
14. Explain the basic concepts of sound reception and studio acoustics.
15. Describe the function of various audio equipment used for recording in a radio studio.
16. Discuss and compare the terms pitch, reverb, and decibels.
17. Describe the standard workflow of news gathering and how a radio newsroom functions daily.
18. Demonstrate how you would edit a raw audio recording from the field into a polished news package.

PART C  
Essay Questions  
Answer any 1 Question  
Each Question Carries 15 mark

19. Trace the history and evolution of radio broadcasting. Discuss its core characteristics as a mass communication medium and examine the significance of various types of radio, including AM, FM, internet, and community radio.
20. Examine the art of writing and scripting for audio media. Apply standard structuring and writing techniques to plan a professional radio or podcast program, detailing the complete workflow from initial recording to final editing.
21. Evaluate the role of audio elements in broadcast journalism. Apply techniques involving news pools, actualities, sound bites, and voice-overs to construct a comprehensive radio news bulletin, and evaluate its impact on audience engagement and credibility

.

**MODEL QUESTION PAPER**  
**B.VOC (HONOURS) BROADCASTING AND JOURNALISM**  
**MG3MPCBAJ200 - CONTENT WRITING**  
**2025 –ONWARD**

**PART A**

Short Answer Questions

Answer All Question

Each Question Carries 1 mark

1. Define content writing and state its primary purpose in the digital age.
2. Explain the fundamental differences between content writing and copywriting.
3. List the key factors that highlight the importance of content in modern marketing,
4. Describe the significance of identifying a target audience
5. Explain the primary indicators of a reliable online source
6. Define plagiarism and state why it must be avoided in content creation
7. Define the primary purpose of a headline in content writing
8. Describe why descriptive titles are important for search engine visibility
9. List the core structural components of a standard blog post
10. List the core structural components of a standard blog post

**PART B**

Short Essay Questions

Answer any 5 Question

Each Question Carries 5 mark

- 11.Explain how subheadings and bullet points contribute to overall readability and structure in digital content.
- 12.Define the primary purpose of a headline in content writing
13. Definition of content writing and its core purpose.
14. Brief historical context showing the evolution from traditional media to digital publishing.
15. Explanation of how content drives SEO
- 16.Analyze the relationship between title tags, meta descriptions, and organic click-through rates (CTR)
17. Explain how to craft an engaging blog introduction that effectively hooks the reader.

18. Demonstrate how you would integrate basic keyword concepts naturally into a short piece of web content.

### PART C

#### Essay Questions

Answer any 1 Question

Each Question Carries 15 mark

19. Elaborate on how a content writer identifies a target audience, defines a specific niche, and utilizes market research techniques.

20. Analyze the risks of plagiarism in digital publishing and explain comprehensive strategies for identifying reliable online and synthesizing that information ethically

21. Examine the role of SEO in digital publishing. Apply basic keywords, descriptive titles, and meta descriptions to create an optimization strategy, and evaluate how they improve search engine rankings.

QP CODE:

Reg.NO: .....

Name : .....

**MAHATMA GANDHI UNIVERSITY,KOTTAYAM**

**MGU-BVOC (HONOURS) Regular Examination October 2026**

**Third Semester**

**Skill Development Components(SDC) – MG3MDCTAH200 - EVENT MANAGEMENT  
AND CURRENT TRENDS IN KERALA TOURISM**

**(2025 ADMISSION ONWARDS)**

**Duration :1.5 Hours**

**Maximum Marks: 50**

**Remember (K), Understand (U), Apply (A),Analyse (An),Evaluate (E),Create  
(C),Skill(S),Interest (I) and Appreciation(Ap)**

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**PART - A**

Answer in one or two sentences

Answer any **10** questions, Each question carries **2** marks

1. Define Event Management and mention any two of its characteristics.(Understand-CO1)
2. What is a target audience in event management? (*Understand – CO1*)
3. What is meant by event typology? Name any four types of events. (*Remember – CO1*)
4. State any two roles of events in tourism promotion. (*Remember – CO1*)
5. Mention any two factors to be considered while selecting an event site. (*Understand – CO1*)
6. What are planning tools? Give any two examples used in event management. (*Understand – CO2*)
7. Mention any two event marketing and promotion techniques. (*Understand – CO2*)
8. What is resource allocation in event management? (*Remember – CO2*)
9. State any two functions of the Kerala Tourism Development Corporation (KTDC) in tourism and event promotion. (*Understand – CO3*)
10. Name any two major festivals/events that promote Kerala tourism. (*Remember– CO3*)
11. What is Kerala Travel Mart (KTM)?( *Understand –CO3*)
12. Mention any two entrepreneurship opportunities in event management.(Understand-CO3)

**(2×10=20)**

## **PART- B**

Answer in Short Essays

Answer any **4** questions. Each question carries **5** marks

13. Explain the nature, scope, and importance of Event Management in tourism. (*Analyse– CO1*)
14. Explain the different types of events—cultural, religious, business, sports, and lifestyle—with suitable examples. (*Understand – CO1*)
15. Explain the major steps involved in identifying event objectives, developing a theme, and selecting the target audience. (*Remember – CO1*)
16. Discuss the importance of event logistics, staging, protocols, staffing, and resource allocation. (*Analyse– CO2*)
17. Explain the major event marketing and promotion techniques used to attract participants and visitors. (*Apply – CO2*)
18. Explain the role of KTDC in promoting and managing tourism events in Kerala. (*Analyze – CO3*)

**(4×5=20)**

## **PART - C**

Answer in Essay

Answer any **1** question, which carries **10** marks

19. Describe the event planning process and explain the use of planning tools in successful event management. (*Evaluate-CO1*)
20. Analyse the role of festivals and events in the promotion and development of Kerala tourism. Discuss the contribution of events such as Thrissur Pooram, Nehru Trophy Boat Race, and Kerala Travel Mart to destination marketing and the tourism industry. (*Analyse -CO3*)

**(10×1=10)**

**MGU – B.VOC (HONOURS) REGULAR EXAMINATIONS OCTOBER 2026**

**Third Semester**

**B.VOC (HONOURS) AGRO FOOD PROCESSING**

**MG3SDCAFP201 – FOOD MICROBIOLOGY**

**Duration: 1.5hrs**

**Total Marks: 50**

**Part – A**

Short Answer

(Answer any 5 questions. Each question carries 2 marks)

- |                                         |        |
|-----------------------------------------|--------|
| 1. Define microbiology.                 | [K]CO1 |
| 2. Define culture media.                | [U]CO2 |
| 3. Define SSCP.                         | [U]CO3 |
| 4. List out the uses of microorganisms. | [K]CO1 |
| 5. What is selective media?             | [U]CO2 |
| 6. Define effluent treatment.           | [U]CO3 |
| 7. Define protozoa.                     | [K]CO1 |

**Part – B**

Short Essay

(Answer any 5 questions. Each question carries 5 marks)

- |                                                                                |        |
|--------------------------------------------------------------------------------|--------|
| 8. Write about the morphology of bacteria.                                     | [K]CO1 |
| 9. Write about food intoxication.                                              | [U]CO3 |
| 10. How can we prepare a media?                                                | [U]CO2 |
| 11. Write a short note on different types of media.                            | [U]CO2 |
| 12. What are the characteristics of fungi .                                    | [K]CO1 |
| 13. What is the role of microorganisms in biomass production and fermentation. | [U]CO2 |
| 14. Write a short note on microbial growth curve.                              | [K]CO1 |

**Part – C**

Essay

(Answer any 1 question. Each question carries 15 marks)

- |                                                                      |        |
|----------------------------------------------------------------------|--------|
| 15. Explain the characteristics and morphology of viruses and algae. | [K]CO1 |
| 16. Write an essay on food infection.                                | [U]CO3 |

MGU BVOC (HONOURS) REGULAR EXAMINATIONS APRIL 2026

THIRD SEMESTER

B.VOC (HONOURS) AGRO FOOD PROCESSING

MG3SDCAFP202-FOOD ANALYSIS AND ADULTERATION TESTING

Duration : 2 hrs

Total Marks :70

PART – A

Short Answer

Answer any 5 questions.Each question carries 2 marks

- |                                                                 |           |
|-----------------------------------------------------------------|-----------|
| 1.Name the two types of population sample ?                     | K[CO-2]   |
| 2. What is moisture content?                                    | U [CO-4]  |
| 3.What is benedict's test used for ?                            | U [CO-4]  |
| 4.What is adulteration?                                         | An [CO-4] |
| 5.Differentiate between qualitative and quantitative analysis ? | U [CO-2]  |
| 7. What is the principle of ash content ?                       | U [CO-4]  |

PART –B

SHORT ESSAY

Answer any 5 questions. Each question carries 5 marks

- |                                                                       |           |
|-----------------------------------------------------------------------|-----------|
| 13.Describe the procedure for determining moisture content .          | U [CO-4]  |
| 14. Explain the procedure for biuret test.                            | U [CO-4]  |
| 15.Write a note on preparation of samples ?                           | K [CO-2]  |
| 16.Write a note on the health hazards caused by various adulterants ? | An [CO-4] |
| 17.Write a note on the common problems of sampling ?                  | K [CO-2]  |
| 18. Write a note on kjeldahl method ?                                 | U [CO-4]  |
| 19. Write a note on probability and non –probability sampling ?       | U [CO-2]  |

## PART C

### ESSAY

Answer any 1 question .Each question carries 15 marks

20. Discuss the different methods of protein analysis, including their principles .  
U[CO-4]
21. Write a note on adulteration, classification , health hazards and common adulterants in food and their testing. An[CO-4]

QP CODE:

Reg.NO: .....

Name : .....

**MAHATMA GANDHI UNIVERSITY,KOTTAYAM**

**MGU-BVOC (HONOURS) Regular Examination October 2026**

**Third Semester**

**Skill Development Components(MPC) –MG3MPCTAH200- TOURISM MARKETING  
AND SALES**

**(2025 ADMISSION ONWARDS)**

**Duration :2 Hours**

**Maximum Marks: 70**

**Remember (K), Understand (U), Apply (A),Analyse (An),Evaluate (E),Create  
(C),Skill(S),Interest (I) and Appreciation(Ap)**

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**PART A**

Answer in one or two sentences

Answer any **10** questions, Each question carries **2** marks

1. Define marketing and state its significance in the tourism industry. (CO1)
2. What are the basic concepts of needs, wants and demand? (CO1)
3. Define service marketing. Mention any two characteristics of tourism services. (CO1)
4. What is meant by marketing mix? List the 7Ps of marketing mix. (CO1)
5. Define tourism product. Give two examples of tourism products. (CO2)
6. What is Product Life Cycle (PLC)? Name its stages. (CO2)
7. What is branding? State two reasons for branding a tourism product. (CO2)
8. Define pricing and mention any two factors influencing pricing. (CO2)
9. What is promotion mix? Mention any two major tools of promotion. (CO3)
10. What is meant by word-of-mouth promotion? (CO3)

11. Define tourism distribution system and mention its importance. (CO3)
12. What is destination marketing? State two attributes of an ideal tourist destination. (CO4)

**(2×10=20)**

### **PART B**

Answer in Short Essays

Answer any **6** questions. Each question carries **5** marks

13. Explain the significance and characteristics of service marketing in the tourism industry. (CO1)
14. Explain the 7Ps of marketing mix with suitable tourism examples. (CO1)
15. Discuss the different stages of the Product Life Cycle (PLC) with examples from tourism. (CO2)
16. Explain the concept of branding and discuss the need for branding tourism products. (CO2)
17. Describe the major pricing strategies used for tourism products and services. (CO2)
18. Explain the major tools of promotion mix used in tourism marketing. (CO3)
19. Explain the factors influencing distribution policy and the major tourism distribution systems. (CO3)
20. Explain the role of travel agencies and tour operators as intermediaries in the tourism industry. (CO3)

**(6×5=30)**

### **PART C**

Answer in Essay

Answer any **2** questions, Each carries **10** marks

21. Explain the concept of tourism marketing in detail. Discuss the 7Ps of marketing mix and their application in the tourism industry with suitable examples. (CO1)
22. Discuss promotion in tourism marketing. Explain the major tools of promotion mix, selection of messages and media, media timing, and the importance of advertising, public relations and personal selling in tourism. (CO3)

23. What is destination marketing? Explain the necessary attributes of an ideal tourist destination, destination life cycle, and marketing strategies for the promotion and development of a tourist destination. (CO4)

**(10×2=20)**

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) REGULAR**  
**EXAMINATION THIRD SEMESTER**  
**MG3SDCREM202- AERODYNAMICS FOR WIND TURBINE**  
**GENERATORS**  
**(2025 ADMISSION ONWARDS)**

**Duration: 1.5 hour**

**Maximum Marks:50**

**Rememder(K) , *Understand(U)*, *Apply(A)*, *Analyse(An)*, *Evaluate( E )*, *Create(C)*,  
*Skill(S)*, *Interest(I)* and *Appreciation(Ap)***

**PART A**  
***Short answer***  
***Answer any 15 questions***  
***Each question carries 1 marks***

1. Define wind energy. [CO1 – U]
2. What is the kinetic energy of wind? [CO1 – U]
3. Define Tip Speed Ratio (TSR). [CO1 – U]
4. State the Betz limit. [CO1 – U]
5. What is meant by a Horizontal Axis Wind Turbine (HAWT)? [CO1 – U]
6. What is an airfoil? [CO2 – U]
7. Define lift force. [CO2 – U]
8. What is Reynolds number? [CO2 – U]
9. What is drag force?[CO3 – U]
10. Define wind turbulence. [CO3 –U]
11. What is wind shear?[CO3 – U]
12. Name any two instruments used for measuring wind speed and direction. [CO4 – U]
13. What is a wind rose? [CO4 – U]
14. Define Weibull distribution. [CO4 – U]
15. What is a power curve of a wind turbine? [CO4 – U]

16. Define capacity factor. [CO4 – U]
17. What is yaw control in a wind turbine? [CO4 – U]

## **PART B**

### ***Short Essay***

***Answer any 3 questions***  
***Each question carries 5 marks***

18. Explain the basic principle of wind energy conversion and derive the expression for the kinetic energy of wind. [CO1 – U]
19. Explain the different types of wind turbines with suitable examples. [CO1 – U]
20. Explain the aerodynamic forces acting on an airfoil. Differentiate between lift and drag. [CO2 – An]
21. Explain the Coriolis Effect, local effects, wind shear and turbulence in wind regimes. [CO3 – An]
22. Explain Weibull distribution and its importance in wind data analysis. [CO4 – An]

## **PART C**

### ***Essay***

***Answer any 2 questions***  
***Each question carries 10 marks***

23. a) Explain the working principle of a Horizontal Axis Wind Turbine with a neat schematic representation  
b) Explain Tip Speed Ratio and Betz limit and discuss their importance in wind turbine performance. [CO1 – U]
24. a) Explain the fundamentals of fluid mechanics applicable to wind turbines  
b) Explain airfoil geometry, lift and drag characteristics, Reynolds number effects and their importance in wind turbine blade design. [CO2 – A]
25. a) Explain the methods of wind measurement and classification of wind resources  
b) Discuss wind rose, wind speed distribution and statistical models used for wind data analysis. [CO3 – An]
26. a) Explain the power curve and performance characteristics of a wind turbine.  
b) Discuss pitch control, yaw control and stall-regulated versus pitch-regulated wind turbines. [CO4 – An]

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) Regular EXAMINATION**  
**THIRD SEMESTER**  
**MG3SDCREM201- Solar Thermal**  
**Technology(2025 ADMISSION ONWARDS)**  
**Duration: 1.5hr** **Maximum Marks:50**

**Rememder(K) , Understand(U), Apply(A), Analyse(An), Evaluate( E ), Create(C),  
Skill(S), Interest(I) and Appreciation(Ap)**

**PART A**  
***Short answer***  
***Answer any 15 questions***  
***Each question carries 1 marks***

- |                                                                |          |
|----------------------------------------------------------------|----------|
| 1. What is solar constant?                                     | [CO1-K]  |
| 2. Define diffuse radiation.                                   | [CO1-K]  |
| 3. Name the instrument used to measure direct solar radiation. | [CO1-K]  |
| 4. What is a pyrometer?                                        | [CO1-K]  |
| 5. What is a sunshine recorder?                                | [CO1-K]  |
| 6. What is a flat plate collector?                             | [CO2-U]  |
| 7. Name the main types of flat plate collectors.               | [CO2-U]  |
| 8. What is a solar pond?                                       | [CO2-U]  |
| 9. What is a compound parabolic collector?                     | [CO2-U]  |
| 10. What is a heliostat?                                       | [CO2-U]  |
| 11. What is a solar water heater?                              | [CO4-An] |
| 12. What is a solar cooker?                                    | [CO4-An] |
| 13. What is a solar still?                                     | [CO4-An] |
| 14. What is solar disinfection?                                | [CO4-An] |
| 15. What is solar greenhouse?                                  | [CO4-An] |
| 16. What is direct gain in passive solar heating?              | [CO5-U]  |
| 17. What is radiation cooling?                                 | [CO5-U]  |

## **PART B**

### ***Short Essay***

***Answer any 3 questions***

***Each question carries 5 marks***

- |                                                                            |          |
|----------------------------------------------------------------------------|----------|
| 18. Explain the formation of direct and diffuse solar radiation.           | [CO1-K]  |
| 19. Explain the construction and working of a liquid flat plate collector. | [CO2-U]  |
| 20. Explain the construction and working of a two pass solar air heater    | [CO2-U]  |
| 21. Explain the construction and working of a simple solar still.          | [CO4-An] |
| 22. Explain the components of an active solar heating system.              | [CO5-U]  |

## **PART C**

### ***Essay***

***Answer any two questions***

***Each question carries 10 marks***

- |                                                                                                                                           |          |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 23. Explain the different types of solar dryers with their construction, working principles, advantages, disadvantages, and applications. | [CO4-An] |
| 24. Explain the different passive solar heating techniques with their working principles and applications.                                | [CO5-U]  |
| 25. Explain the measurement of solar radiation using a pyrometer, pyrliometer, and sunshine recorder.                                     | [CO1-K]  |
| 26. Explain the different types of flat plate air heating collectors with their construction and working principles.                      | [CO2-U]  |

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) Regular EXAMINATION**

**THIRD SEMESTER**

**MG3SDCREM200- Material Science For**  
**Renewable Energy Technology**  
**(2025 ADMISSION ONWARDS)**

**Duration: 2 hr**

**Maximum Marks:70**

**Rememder(K) , *Understand(U), Apply(A), Analyse(An), Evaluate( E ), Create(C),***  
***Skill(S), Interest(I) and Appreciation(Ap)***

**PART A**

***Short answer***

***Answer any 25 questions***

***Each question carries 1 marks***

1. Mention any two important mechanical properties of materials.[K, CO1]
2. State the significance of optical properties in materials. [U, CO1]
3. List any two magnetic materials. [K, CO1]
4. Identify the class of materials that exhibits electrical conductivity intermediate between conductors and insulators. [U, CO1]
5. Give a brief definition of nanomaterials. [U, CO1]
6. State the phenomenon of superconductivity. [U, CO1]
7. Mention one application of nanomaterials in solar cell technology. [A, CO1]
8. Identify the role of a nano catalyst in a chemical reaction. [U, CO1]
9. Express stress in terms of force and area. [K, CO2]
10. Express strain in terms of change in dimension and original dimension. [K, CO2]
11. State Hooke's law. [K, CO2]
12. Distinguish tensile stress from compressive stress. [U, CO2]
13. Mention the condition under which thermal stress develops in a material. [U, CO2]
14. State the property by virtue of which a material regains its original shape after removal of the applied load. [K, CO2]

15. Identify the type of deformation that remains permanent after removal of the applied load. [K, CO2]
16. Indicate the significance of yield stress in material behaviour. [U, CO2]
17. Mention the effect of strain hardening on the strength of a material. [U, CO2]
18. List any two environmental factors that affect materials. [K, CO3]
19. Identify the electrochemical deterioration of a metal due to its interaction with the environment. [K, CO3]
20. Mention the two broad types of fracture based on the mode of failure. [K, CO3]
21. State the purpose of failure analysis of solar materials. [U, CO3]
22. Classify polymers based on their source. [U, CO4]
23. List any two examples of synthetic polymers.[K, CO4]
24. Identify the class of polymers that can be repeatedly softened by heating and hardened by cooling. [U, CO4]
25. Mention any two polymers commonly used in engineering applications. [K, CO4]
26. State the purpose of vulcanization of rubber. [U, CO4]
27. Mention one environmental advantage of biodegradable polymers. [E, CO5]

## **PART B**

### ***Short Essay***

***Answer any 5 questions***

***Each question carries 5 marks***

28. Discuss the mechanical, thermal and electrical properties of metals with suitable examples. [U, CO1]
29. Describe the phenomenon of superconductivity and outline its major applications. [U, CO1]
30. Discuss the role of nanomaterials in renewable energy applications, with special reference to solar cells, sensors and hydrogen generation. [A, CO1]
31. Explain the concepts of stress and strain and derive the relationship between them based on Hooke's law. Illustrate the stress–strain behaviour of a material. [An, CO2]

- 32. Discuss elasticity, plastic deformation and yield stress in metals and polymers. [An, CO2]
- 33. Examine the major environmental effects on materials, with particular reference to corrosion, erosion, thermal stress and weathering. [An, CO3]
- 34. Classify polymers into natural and synthetic types and compare their characteristics with suitable examples. [E, CO4]

## **PART C**

### ***Essay***

***Answer any two questions***

***Each question carries 10 marks***

- 35. Discuss the mechanical, optical, thermal, electrical and magnetic properties of materials, highlighting their significance in engineering applications. [U, CO1]
- 36. Describe the stress–strain diagram of a material. Discuss thermal stress, elasticity, plastic deformation, yield stress, shear strength and strengthening mechanisms. [An, CO2]
- 37. Analyse the effect of temperature on material behaviour. Discuss fracture behaviour of different materials and the significance of failure analysis in solar materials. [E, CO3]
- 38. Describe the structure and properties of natural rubber. Explain the process of vulcanization and discuss synthetic rubbers such as SBR and neoprene. Add a note on the environmental impact of plastics and biodegradable polymers. [E, CO5]

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**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**MGU-BVOC (HONOURS) Regular EXAMINATION, October 2026**

**Third SEMESTER**

**Skill Development Components (SDC) – MG3SDCFTA201 – FRUITS AND**

**VEGETABLE PROCESSING**

**(2025 ADMISSION ONWARDS)**

**Duration: 1 hour 30 minutes**

**Maximum Marks: 50**

***Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I)  
and Appreciation(Ap)***

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**Part A**

One or two sentences

Answer any **10** questions

Each question carries **1** marks

- |                                                                |             |
|----------------------------------------------------------------|-------------|
| 1. Define fruits.                                              | [K] / [CO1] |
| 2. Distinguish between climacteric and non-climacteric fruits. | [K] / [CO1] |
| 3. Comment on post harvest losses.                             | [K] / [CO1] |
| 4. List any two maturity indices method.                       | [K] / [CO2] |
| 5. Give a note on waxing in fruits and vegetables.             | [K] / [CO2] |
| 6. List any two changes involved during ripening.              | [K] / [CO2] |
| 7. Comment on refrigerated storage.                            | [K] / [CO2] |
| 8. Give a note on active packaging.                            | [K] / [CO2] |
| 9. Outline the importance of edible coating.                   | [K] / [CO3] |

- |                                                                              |             |
|------------------------------------------------------------------------------|-------------|
| 10. Define the term enzyme maceration.                                       | [K] / [CO3] |
| 11. List out the factors that affect the blanching of fruits and vegetables. | [K] / [CO3] |
| 12. Define OMF.                                                              | [K] / [CO3] |
| <b>[1x10 = 10]</b>                                                           |             |

**Part B**

Short answer

Answer any **4** questions

Each question carries **5** marks

- |                                                                         |             |
|-------------------------------------------------------------------------|-------------|
| 13. Classify pigments in fruits.                                        | [K] / [CO1] |
| 14. Outline the stability of nutrients in vegetables.                   | [K] / [CO1] |
| 15. Outline the types of precooling methods.                            | [K] / [CO2] |
| 16. List any five traditional storage methods in fruits and vegetables. | [K] / [CO2] |
| 17. Distinguish between peeling and blanching                           | [K] / [CO3] |
| 18. Explain the application of ozone in fruit processing.               | [U] / [CO3] |

**[5x4 = 20]**

**Part C**

Essay

Answer any **2** questions

Each question carries **10** marks

- |                                                                          |             |
|--------------------------------------------------------------------------|-------------|
| 19. Explain the classification of fruits and vegetables.                 | [K] / [CO1] |
| 20. Explain in detail about harvesting methods of fruits and vegetables. | [U] / [CO2] |
| 21. Distinguish between CAS and MAP.                                     | [U] / [CO2] |
| 22. Explain canning in fruits and vegetables.                            | [K] / [CO3] |

**[10x2 = 20]**

**QP CODE**

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**MGU-BVOC (HONOURS) DEGREE EXAMINATION**

**THIRD SEMESTER**

**MG3SDCBAJ200 - FOUNDATIONS OF ADVERTISING**

Part A

MCQ/fill in the blanks

Answer all questions

Each question carries 1 marks

1. Identify the person associated with the AIDA model of advertising.
  - a) E. St. Elmo Lewis
  - b) Abraham Maslow
  - c) Russell Colley
  - d) David Ogilvy
2. Select the correct expansion of USP.
  - a) Unique Selling PropositionA
  - b) Universal Selling Product
  - c) Unique Service Promotion
  - d) Universal Sales Proposition
3. Identify the outdoor advertising medium from the following.
  - a) Newspaper
  - b) Radio
  - c) Hoarding
  - d) Magazine
4. Select the element included in the Four Ps of Marketing.
  - a) Promotion
  - b) Publicity

- c) Psychology
  - d) Positioning
5. Identify the advertising technique that uses a well-known personality to promote a product.
- a) Puffery
  - b) Celebrity endorsement
  - c) Advertorial
  - d) Infomercial
6. Select the term referring to the specific group of consumers for whom an advertisement is designed.
- a) USP
  - b) Target audience
  - c) Jingle
  - d) Typography
7. Select the statement that best represents brand positioning.
- a) Designing a company logo
  - b) Creating a specific image of a brand in consumers' minds
  - c) Selecting a celebrity for an advertisement
  - d) Deciding the price of a product
8. Identify the advertising element used when a famous actor is employed to increase consumers' trust in a new product.
- a) White space
  - b) Celebrity endorsement
  - c) Typography
  - d) Media optimization
9. Select the most suitable advertising approach for a premium smartphone promoted to young professionals through Instagram and YouTube.
- a) Mass targeting and traditional media
  - b) Targeted audience and digital advertising
  - c) Rural targeting and outdoor advertising
  - d) General targeting and print advertising
10. Identify the advertising model represented by the sequence: attention → interest → desire → action.
- a) DAGMAR Model
  - b) AIDA Model

- c) Maslow's Hierarchy of Needs
- d) Four Ps Model

## **PART B**

**Answer any 10 questions.**

**10 × 2 = 20 Marks**

**Answer in less than 50 words.**

11. State the meaning of advertising.
12. List any two functions of advertising.
13. Identify any two major aspects of advertising.
14. State the meaning of USP in advertising.
15. List any two outdoor advertising media.
16. Explain the importance of advertising in marketing communication.
17. Describe the psychological aspect of advertising.
18. Explain the role of testimonials in advertising.
19. Describe the concept of brand positioning.
20. Explain the significance of the target audience in advertising.
21. Distinguish between print advertising and electronic advertising.
22. Differentiate between celebrity endorsement and puffery.
23. Analyse the role of digital advertising in reaching a targeted audience.

## **PART C**

**Answer any 5 questions.**

**5 × 5 = 25 Marks**

**Answer in less than 200 words.**

24. Explain the importance and major functions of advertising in contemporary society.
25. Describe the economic, sociological and psychological aspects of advertising.
26. Explain the major elements of advertising, including target audience, USP, appeals, testimonials, infomercials, POP and advertorials.
27. Describe the major types of advertising and the different advertising media used for promotion.
28. Analyse the AIDA Model, DAGMAR Model and Maslow's Hierarchy of Needs as approaches to advertising communication.
29. Analyse the role of brand positioning, brand identity and brand equity in building a successful brand.
30. Analyse the relationship between segmentation, targeting and the Four Ps of Marketing in advertising.
31. Analyse the role of advertising agencies, media planning and advertising research in an advertising campaign.

## **PART D**

**Answer any 1 question.**

**1 × 15 = 15 Marks**

**Answer in less than 500 words.**

32. Explain the evolution, importance and major functions of advertising from traditional to digital media.
33. Analyse the major creative techniques in advertising, including illustration, slogan, typography, white space, jingles, copywriting and visual storytelling.
34. Prepare a marketing communication strategy for any product or service, including target audience, positioning, USP, appeal, media selection and creative execution. Create a print/visual advertisement and a radio/TV script.

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**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**MGU-BVOC (HONOURS) Regular EXAMINATION, October 2026**

**Third SEMESTER**

**Minor Pathway Course (MPC) – MG3MPCHY200 – BIO-ORGANIC CHEMISTRY**

**(2025 ADMISSION ONWARDS)**

**Duration: 1 hour 30 minutes**

**Maximum Marks: 50**

***Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I)  
and Appreciation(Ap)***

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**Part A**

Answer in one sentence

Answer any **10** questions

Each question carries **1** marks

1. State the rule stating that terpenes are built from linked five-carbon units. [K] / [CO1]
2. Outline the structural difference in the number of carbon atoms between a sesquiterpene and a diterpene. [K] / [CO1]
3. Define the term essential oil. [K] / [CO1]
4. Define the term alkaloid. [K] / [CO1]
5. Define the term substrate based on enzyme action. [K] / [CO2]
6. Explain the term reaction specificity of enzymes. [K] / [CO2]
7. Define irreversible enzyme inhibition. [K] / [CO2]
8. Define nucleoside [K] / [CO3]
9. Name the bases present in RNA [K] / [CO3]

10. Name two fat soluble and water-soluble vitamins [K] / [CO4]
11. Name four vitamin deficiency diseases [K] / [CO4]
12. Give any two functions of Vitamin C [K] / [CO4]

**[1x10 = 10]**

### **Part B**

Short answer

Answer any **4** questions

Each question carries **5** marks

13. Write a note on compound lipids. [K] / [CO1]
14. Differentiate between essential and non-essential amino acids [K] / [CO1]
15. Write short notes on apoenzyme, cofactor, coenzyme. [K] / [CO2]
16. Explain the structure of energy rich molecules. [K] / [CO3]
17. Discuss the replication of DNA. [K] / [CO3]
18. Give a brief account of vitamin deficiency diseases. [U] / [CO4]

**[5x4 = 20]**

### **Part C**

Essay

Answer any **2** questions

Each question carries **10** marks

19. Write an essay on Lipids and its classification. [K] / [CO1]
20. Write an essay on mechanism of enzyme action. [U] / [CO2]
21. Write a note on role of DNA in protein biosynthesis. [U] / [CO3]
22. Write an essay on water soluble vitamins. [K] / [CO4]

**[10x2 = 20]**

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) Regular EXAMINATION**  
**THIRD SEMESTER**  
**MG3MDCREM200- IKS for Renewable Energy**  
**Transformation in Kerala**  
**(2025 ADMISSION ONWARDS)**

**Duration:1.5 hr**

**Maximum Marks:50**

**Rememder(K) , *Understand(U), Apply(A), Analyse(An), Evaluate( E ), Create(C),***  
***Skill(S), Interest(I) and Appreciation(Ap)***

**PART A**  
***Short answer***  
***Answer any 30 questions***  
***Each question carries 1 marks***

1. Identify the knowledge system that represents the traditional knowledge of India. [U, CO1]
2. Mention any one significant contribution of Kerala to IKS. [R, CO2]
3. Name the traditional system of medicine associated with Kerala and South India. [R, CO1]
4. Give one characteristic feature of Ayurveda. [U, CO1]
5. Cite one example of a traditional water management practice in Kerala. [R, CO1]
6. Identify the role of temples in traditional astronomical practices. [U, CO1]
7. Write the meaning of the term Panchangam. [U, CO1]
8. List any two components of Panchangam. [R, CO1]
9. Indicate one application of traditional calendars in agriculture. [U, CO2]
10. Differentiate between solar and lunar calendars. [An, CO1]
11. Mention one energy-related application of traditional astronomical knowledge. [U, CO2]
12. Point out one way in which IKS can contribute to modern renewable energy policies. [A, CO4]
13. Identify the ancient Indian practice associated with salutations to the Sun. [U, CO1]

14. Name one ancient Indian astronomical system used for understanding solar movements. [R, CO1]
15. Mention one important solar temple in India. [R, CO2]
16. Locate the famous Konark Sun Temple. [R, CO1]
17. Identify the basic principle involved in traditional sun-tracking practices. [U, CO2]
18. Give one example of an ancient structure associated with solar observation. [R, CO1]
19. Mention one possible connection between traditional solar knowledge and modern solar PV systems. [U, CO3]
20. Specify one application of solar energy in traditional practices. [U, CO2]
21. Identify the major purpose of integrating ancient solar knowledge with modern solar technology. [U, CO3]
22. Name the traditional Kerala architectural system known for its central courtyard. [R, CO2]
23. Mention one feature of a Nalukettu that promotes natural ventilation. [R, CO2]
24. Identify the passive solar feature commonly associated with traditional Kerala architecture. [U, CO2]
25. Give one advantage of passive solar lighting. [U, CO3]
26. Name any two biomass resources commonly available in Kerala. [R, CO2]
27. Mention one traditional use of cow dung as an energy resource. [R, CO2]
28. Identify the process through which organic matter is converted into biogas. [U, CO3]
29. Give one example of agricultural waste that can be used for energy generation. [R, CO2]
30. Mention one advantage of community-scale biomass energy systems. [U, CO3]
31. Identify one difference between traditional biogas systems and modern biogas plants. [An, CO3]
32. Write the full form of KSEB. [R, CO3]

## **PART B**

### ***Short Essay***

***Answer any 4 questions***

***Each question carries 5 marks***

33. Trace the historical evolution of Indian Knowledge Systems and examine Kerala's contribution to its development. [An, CO1]
34. Compare Siddha and Ayurveda with respect to their basic principles and traditional significance. [An, CO1]
35. Describe the structure of Panchangam and examine the relevance of traditional solar-lunar calculations in agriculture and energy-related activities. [An, CO1]
36. Discuss the traditional Indian knowledge of solar astronomy with reference to Surya Namaskara, sun-tracking practices and solar temples. [U, CO2]
37. Analyse the architectural principles of Nalukettu and explain how they facilitate passive solar lighting and natural ventilation. [An, CO2]
38. Discuss the role of biomass and bioenergy in sustainable agriculture. Explain the utilisation of cow dung, coconut shells and agricultural residues for energy generation. [U, CO3]

QP CODE:

Reg.NO: .....

Name : .....

**MAHATMA GANDHI UNIVERSITY,KOTTAYAM**

**MGU-BVOC (HONOURS) Regular Examination October 2026**

**Third Semester**

**Skill Development Components(SDC) –MG3SDCTAH201- TRAVEL GEOGRAPHY**

**(2025 ADMISSION ONWARDS)**

**Duration :2 Hours**

**Maximum Marks: 70**

**Remember (K), Understand (U), Apply (A),Analyse (An),Evaluate (E),Create (C),Skill(S),Interest (I) and Appreciation(Ap)**

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**PART A**

Answer in one or two sentences

Answer any **10** questions, Each question carries **2** marks

1. Define Geography and mention any two aspects of its scope.(Understand-CO1)
2. List the five themes of Geography. (*Understand – CO1*)
3. What are mountains? Mention any two types of mountains. (*Remember – CO1*)
4. What is meant by a natural region? Give one example. (*Remember – CO1*)
5. Mention any two geographical factors that influence tourism. (*Understand – CO2*)
6. How does climate influence tourist flows? (*Understand – CO2*)
7. What is seasonality in tourism? (*Understand – CO2*)
8. Define tourism destination development. (*Remember – CO2*)
9. What is map reading? Mention any two essential elements of a map. (*Understand – CO3*)
10. What is GPS? State one use of GPS in tourism. (*Apply – CO3*)
11. Name any two important tourist destinations in Africa.( *Understand -CO4*)
12. Name any two major tourist attractions in Europe.(Understand- CO4)

**(2×10=20)**

## **PART B**

### **Answer in Short Essays**

Answer any **6** questions. Each question carries **5** marks

13. Explain the five themes of Geography with suitable examples. (*Analyse– CO1*)
14. Describe the major characteristics of mountains, plains, and plateaus. (*Understand – CO1*)
15. Explain the major natural regions of the world and their significance for tourism. (*Remember – CO1*)
16. Discuss the major geographical determinants that influence tourism development and tourist flows. (*Understand – CO2*)
17. Explain the impact of weather and climate on tourism. Give suitable examples. (*Apply – CO2*)
18. Explain seasonality in tourism and discuss its effects on tourism destinations. (*Analyze – CO2*)
19. Explain the basic principles of map reading and the importance of maps in tourism. (*Analyse– CO3*)
20. Describe the major tourist destinations and attractions of Europe. (*Apply – CO4*)

**(6×5=30)**

## **PART C**

### **Answer in Essay**

Answer any **2** questions, Each carries **10** marks

21. Explain the role of Geography in tourism. Discuss how geographical components such as landforms, climate, location, accessibility, and natural regions contribute to tourism development. (*Evaluate-CO1*)
22. Discuss the role of geographical factors, weather, climate, and seasonality in determining tourism patterns and destination development. Illustrate your answer with suitable examples. (*Analyse CO2*)
23. Describe the major tourist destinations and attractions of Africa, the Middle East. Explain their geographical significance and contribution to tourism. (*Analyse–CO4*)

**(10×2=20)**

MGU-B.VOC (HONOURS) REGULAR EXAMINATIONS OCTOBER 2026

Third semester

B.VOC (HONOURS) AGRO FOOD PROCESSING

MG3MDCAFP200- Technology of Coconut-based products

Total marks:50

Duration: 1hr

**PART A**

Short Answer

(Answer any 5 questions .Each question carries 2 marks)

1. Define coconut-based products .Give two examples . [K]CO1
2. Mention any two important nutritional components of coconut [K]CO1
3. What is copra ? What are the different types of copra ? [U]CO2
- 4.what is oil refining ? [U] CO2
5. Explain the purpose of bleaching coconut oil. [E]CO3
6. Mention the characteristics of good quality VCO. [E] CO3
7. What is pasteurization? [U]CO3

**PART B**

Shor Essay

(Answer any 5 questions .Each question carries 5 marks )

8. Discuss the economic importance of coconut [K]CO1
9. Explain the preparation of copra. [U]CO2
10. Describe the steps involved in coconut oil extraction [E]CO3
11. Discuss the packaging and storage of desiccated coconut [U]CO2
12. Explain the homogenization of coconut milk . [E]CO3
13. Explain the advantages and uses of coconut milk [K]CO1

14. Explain the principle of spraying . [U]CO2

PART C

Essay

(Answer any one questions .Each question carries 15 marks )

15. Discuss the nutritional , economic and industrial importance of coconut in detail.  
[K]CO1

16. Explain the complete production of coconut milk powder. [E] CO3

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) BANKING AND FINANCIAL**  
**SERVICES**

**Third Semester**

**MG3MDCBFS200 -KERALA BANKING SYSTEM**

**Time: 1.5 Hrs**

**Maximum Marks: 50**

**PART A**

**SHORT ANSWERS**

**Answer any 5 questions**

**Each question carries 2 mark**

1. State the primary functions of banks.
2. Identify the founder of Grameen Bank.
3. State the year of establishment of RBI.
4. State any two challenges faced by microfinance institutions.
5. Define Sustainable Finance.
6. List any two benefits of ESG in banking.
7. Mention two advantages of mobile banking services.

**[5x2 = 10]**

**PART B**

**SHORT ESSAY**

**Answer any 5 questions**

**Each question carries 5 marks**

8. Explain the essential characteristics of banking.
9. Differentiate between current account and savings bank account.

10. Explain the objectives of RBI.
11. Examine the role of Grameen Bank in promoting women's economic empowerment.
12. Explain the significance of responsible lending practices in Green Banking.
13. Discuss the evolution of Grameen Bank from a rural credit initiative to a formal banking institution.
14. Explain the significance of environmental responsibility in ESG.

**[5x5 = 25]**

### **PART C**

#### **LONG ESSAY**

**Answer any 1 question**

**Each question carries 15 marks**

15. Discuss the objectives, organisational structure and functions of RBI.
16. Explain the constitution, ownership pattern, and governance structure of Grameen Bank.

**[1x15 = 15]**

**MGU-BVOC (HONOURS) REGULAR EXAMINATION OCTOBER 2026**  
**THIRD SEMESTER**  
**BVOC (HONOURS) AGRICULTURE TECHNOLOGY**  
**MG3SDCBAT201-INTEGRATED PEST MANAGEMENT OF CROPS**

**Time:1.5 hr**

**Maximum marks:50**

**PART A**

Short answer

Answer any 5 questions

Each carries 2 marks

1. Define IPM.[K]CO1
2. What is Dri-die?[U]CO2
3. List out the characteristics of a technical grade pesticides.[A]CO3
4. Write a short on international quarantine.[U]CO2
5. What is Rouging?[K]CO1
6. Write any two example biological control agents.[U]CO2
7. List out the materials required for the preparation of neem garlic emulsion and tobacco decoction..[A]CO3

**(2\*5=10)**

**PART B**

Short essay

Answer any 5 questions

Each carries 5 marks

8. Write a Short note on the phases of crop protection.[K]CO1
9. Explain the physical methods of pest management.[U]CO2
10. Write a note on classification of Insecticides. A]CO3
11. Explain the types of trapping in IPM .[U]CO2
12. Write a short note on the insecticide Act.[A]CO3
13. Write a note on the characters and mode of action of EPN.[U]CO2
14. Briefly explain the method of preparation of neem oil garlic emulsion and tobacco decoction.[A]CO3

**(5\*5=25)**

**PART C**

Essay

Answer any 1 question

Each carries 15 marks

15. Write an essay on Host plant resistance.[K]CO1
16. Write an essay on the mass production of *trichogramma*. [A]CO3

**(15\*1=15)**

**MGU-BVOC (HONOURS) REGULAR EXAMINATION OCTOBER 2026**  
**THIRD SEMESTER**  
**BVOC (HONOURS) AGRICULTURE TECHNOLOGY**  
**MG3MDCBAT200-INTEGRATED FARMING AND HOMESTEAD FARMING IN**  
**KERALA**

**Time:1.5 hr**

**Maximum marks:50**

**PART A**

Short answer

Answer any 5 questions

Each carries 2 marks

1. What is sustainable agriculture?.[K]CO1
2. What is homestead farming?[U]CO2
3. What is integrated nutrient management ?.[A]CO3
4. Define the term agroforestry.[U]CO2
5. Write an example for an IFS model?[K]CO1
6. List out the objectives of homestead farming in Kerala .[U]CO2
7. Define bulky organic manure.[A]CO3

**(2\*5=10)**

**PART B**

Short essay

Answer any 5 questions

Each carries 5 marks

8. Write a Short note on the component of IFS.[K]CO1
9. Explain the advantages and disadvantages of homestead farming .[U]CO2
10. What is organic manure?Briefly describe the classification of organic manure with example[. A]CO3
11. Explain the types of agroforestry .[U]CO2
12. Discuss about methods used in IPDM.[A]CO3
13. Write a note on crop rotation .[U]CO2
14. Discuss the advantages of INM in sustainable agriculture .[A]CO3

**(5\*5=25)**

**PART C**

Essay

Answer any 1 question

Each carries 15 marks

15. Write an essay on Cropping system .[K]CO1
16. Write in detail about the physical and biological methods used in IPDM.[A]CO3

**(15\*1=15)**

**Reg.No.:.....**

**Name:.....**

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) REGULAR EXAMINATION**  
**Third Semester**  
**MG3SDCBTX200-GOODS AND SERVICE TAX -I**

**Duration: 2 Hours**

**Maximum Mark: 70**

**Part A**

Very Short Answer

Answer any 10 questions.

Each Question carries 1 mark.

1. what is GST?
2. The constitution of India was amended for introducing GST. Why?
3. Explain value addition in GST?
4. What is mixed supply?
5. What is GST compliance rating?
6. How to determine Time of supply
7. What is GST certificate of registration?
8. Discuss Reversal of Input Tax Credit?
9. What are the Profit & Loss items which might attract GST under RCM?
10. Differentiate between GSTR1 and GSTR2
11. Explain annual return?
12. How can NRIs obtain GST registration?

(1\*10=10)

**Part B**

Short Essay Questions

Answer any 6 questions.

Each Question carries 5 marks.

13. Explain components of GST
14. Explain the functions of GST council?
15. Explain the procedure for cancellation of registration on application?
16. Discuss Goods outside GST and taxes merged into GST?
17. Discuss input tax credit and conditions related to Input tax credit
18. Mention due date and late fee for filing GST return
19. What is the process of paying tax via RCM on purchases from URDs?
20. Summarize the contents of GSTR3?

(5\*6=30)

### **Part C**

#### **Long Essay Questions**

**Answer any 2 questions.**

**Each Question carries 15 marks**

21. Narrate the Evaluation of GST system in India and major drawbacks of GST.
22. Explain the procedure for GST registration
23. Discuss different type of GST return?

**(15\*2=30)**

MGU-B.VOC (HONOURS) REGULAR EXAMINATIONS OCTOBER 2026

Third semester

B.VOC (HONOURS) AGRO FOOD PROCESSING

MG3SDCAFP200- Food science and Nutrition

Total marks:70.

Duration: 2hr

**PART A**

Short Answer

(Answer any 10 questions Each question carries 2 marks)

1. Which are the diseases caused by protein malnutrition? [E]CO3
2. What do you mean by metabolism? [U]CO1
3. Define food with examples. [U]CO1
4. How foods are classified based on its function? [U] CO1
5. What do you mean by dehydration? [An]CO2
6. Explain reference women and reference men. [E] CO3
7. What are the sources of vitamin C7. [U]C01
8. How fortification improves the quality of food? [A]CO4
9. Differentiate between micro and macronutrients. [U]CO1
10. Write the dietary sources of Na, potassium, fluorine. [U]CO1
11. Which are the units of energy? [U] CO1
12. What do you mean by BMR and ADI. [A]CO4

**PART B**

Shor Essay

(Answer any 4 questions .Each question carries 5 marks )

13. How nutrients contribute to good health? [A]CO4
14. Give a note on deficiency diseases caused by major minerals. [E]CO3

15. Draw a food pyramid and explain it . [An]CO2
16. What do you mean by obesity? Write it's causes and preventive method. [E]CO3
17. Give a note on fat soluble vitamins. [U]CO1
18. Write a note on loss of vitamins from foods during processing. [A]CO4

#### PART C

##### Essay

(Answer any 2 questions .Each question carries 15 marks )

- 19.write in detail about role of water in human body . [U]CO1
- 20 . Write about toxicity, deficiency disorders and sources of various vitamins [E]CO3
21. Describe Enrichment, fortification and restoration. [A]CO4
22. Define energy , give a detailed note on total energy requirements. [An]CO2

QP Code

Reg.No : .....

Name : .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) Regular EXAMINATION, October 2026**  
**Third SEMESTER**  
**Skill Development Components (SDC) – MG3SDCFTA202 – FOOD**  
**CHEMISTRY**  
(2025 ADMISSION ONWARDS)

**Duration: 1 hour 30 minutes**

**Maximum Marks: 50**

***Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I)  
and Appreciation(Ap)***

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**Part A**

One or two sentences

Answer any **10** questions

Each question carries **1** marks

- |                                                         |             |
|---------------------------------------------------------|-------------|
| 1. Define free water.                                   | [K] / [CO1] |
| 2. Give a note on water activity.                       | [K] / [CO1] |
| 3. Draw the open chain structure of fructose.           | [K] / [CO1] |
| 4. Define epimers.                                      | [K] / [CO1] |
| 5. Give a note on gelation.                             | [K] / [CO1] |
| 6. List any two aromatic amino acid with its structure. | [K] / [CO2] |
| 7. Give a note on peptide bond.                         | [K] / [CO2] |
| 8. Describe zwitter ion.                                | [K] / [CO2] |
| 9. Distinguish fat and oil.                             | [K] / [CO3] |

10. Define the term polymorphism. [K] / [CO3]
11. List out the factors that affect the plasticity of fat. [K] / [CO3]
12. Define RM value. [K] / [CO3]
- [1x10 = 10]**

### **Part B**

Short answer

Answer any **4** questions

Each question carries **5** marks

13. Discuss on starch gelatinization [K] / [CO1]
14. Discuss on enzymatic browning and its method of control [K] / [CO1]
15. Classify protein based on source [K] / [CO2]
16. Discuss on protein denaturation. [K] / [CO2]
17. Recognize the difference between smoke, flash and fire point. [K] / [CO3]
18. Explain hydrogenation of oils. [U] / [CO3]

**[5x4 = 20]**

### **Part C**

Essay

Answer any **2** questions

Each question carries **10** marks

19. Elaborate the structural classification of carbohydrates with examples. [K] / [CO1]
20. Discuss on Maillard reaction and Caramelization. [U] / [CO1]
21. Explain in detail on protein structure. [U] / [CO2]
22. Discuss the classification of edible fat. [U] / [CO3]

**[10x2 = 20]**

QP CODE:

Reg.No: .....

Name : .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**MGU-BVOC (HONOURS) Regular Examination**

**Third Semester**

**Multi-Disciplinary Course (MDC) - MG3MDCSDS200 - E-GOVERNANCE AND DIGITAL KERALA SYSTEM**

**(2025 ADMISSION ONWARDS)**

**Duration: 1.5 Hours**

**Maximum Marks: 50**

*Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Skill (S), Interest (I) and Appreciation (Ap)*

*Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.*

**Part A**

**Very Short Answer Questions**

*Answer any 10 questions, Each question carries 2 marks*

1. Define e-Governance. *(Remember – CO1)*
2. List the four types of e-Governance ( *Remember – CO1*)
3. What is the National e-Governance Plan (NeGP)? *(Understand – CO1)*
4. Mention any two challenges of e-Governance. *(Remember – CO1)*
5. What is meant by front-end and back-end systems in e-Governance? *(Understand – CO2)*
6. Define interoperability in the context of e-Governance. *(Remember – CO2)*
7. What is the role of Aadhaar in digital authentication? *(Understand – CO2)*
8. Name any two provisions of the IT Act, 2000. *(Remember – CO2)*
9. What is Digital Kerala Mission? *(Remember – CO3)*
10. Define KFON (Kerala Fibre Optic Network). *(Remember – CO3)*
11. What is the purpose of Akshaya Centres? *(Understand – CO3)*
12. Name any two e-Governance initiatives in Kerala other than Akshaya. *(Remember – CO3)*

**(10 × 2 = 20 marks)**

**Part B**

**Short Answer Questions**

*Answer any 4 questions, Each question carries 5 marks*

13. Explain the evolution of governance from manual to digital systems. *(Understand – CO1)*
14. Discuss the components of e-Governance with examples. *(Understand – CO1)*
15. Explain the ICT tools used in e-Governance (portals, mobile apps, databases). *(Apply – CO2)*
16. Discuss the role of encryption and digital identity management in securing e-Governance systems. *(Analyse – CO2)*
17. Describe the eDistrict and eHealth initiatives under Digital Kerala Mission. *(Understand – CO3)*
18. Explain the role of Akshaya Centres in citizen empowerment and inclusivity. *(Analyse – CO3)*

**(4 × 5 = 20 marks)**

**Part C**

**Essay Question**

*Answer any 1 question. The question carries 10 marks.*

19. Describe the components of e-Governance and explain the objectives of the National e-Governance Plan (NeGP) and Digital India Programme. (*Analyse – CO1*)

20. Discuss the technical architecture of e-Governance systems along with the legal framework (IT Act 2000, RTI, Data Protection) that supports secure and scalable platforms. (*Analyse – CO2*)

21. Discuss the concept of smart governance and explain how local self-government institutions in Kerala are being digitalized, with reference to initiatives like FRIENDS and Ente Nadappu (*Understand – CO3*)

**(1 × 10 = 10 marks)**

Reg No: \_\_\_\_\_

Name: \_\_\_\_\_

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC FYUGP REGULAR EXAMINATION October 2026**  
**THIRD SEMESTER**  
**MG3SDCBTX202 - ACCOUNTING FOR INVENTORY AND PAYROLL**  
(2025 ADMISSION ONWARDS)

Duration: 1 Hour 30 Minutes

Maximum Marks: 50

**Part - A**

**Very short Answer questions**

Answer any 10 questions, each question carries 1 mark

1. Give the equation of EOQ.
2. Mention two important methods of pricing of issues.
3. What do you mean by idle time?
4. Give two examples for normal loss.
5. What is Bin Card?
6. What is Payroll?
7. What do you mean by Labour Turnover? Mention any two reasons also.
8. What is centralised purchase?
9. What is perpetual inventory system?
10. Explain the advantages of piece rate system.
11. Explain ABC Analysis.
12. What is minimum stock level? Give its equation also.

(1×10=10)

**Part B**

**Short Answer Questions**

Answer any 4 questions. Each question carries 5 marks.

13. Explain in detail the purchase procedure.
14. What are the differences between bin card and stores ledger.
15. Two components X and Y are used as follows:  
Normal usage: 50 units each per week  
Minimum usage: 25 units each per week  
Maximum usage: 75 units each per week  
Reorder quantity: X 400 units; Y 600 units  
Reorder period: X 4–6 weeks; Y 2–4 weeks  
Emergency supply time: X 2 weeks; Y 1 week

Calculate for each component:

- (1) Reorder level
- (2) Minimum level
- (3) Maximum level
- (4) Average level
- (5) Danger level

16. Following information is available in respect of a particular type of material:

Annual demand: 3500 units  
Ordering cost per order: Rs. 5  
Interest rate: 10% per annum  
Cost per unit: Rs. 3.60  
Storage cost: 3% per annum  
Lead time: ½ month

Calculate EOQ and total annual inventory cost of the material.

17. Time taken by a worker for completing a job is 40 hrs. Time allowed for completion is 50 hrs. Time rate is Rs. 10/hr. Calculate the earnings of the worker under Halsey Premium Plan.

18. The following receipts and issues were made of a new item of stores:

July 1 - Purchases - 300 units @ Rs. 10  
July 4 - Issued - 120 units to production  
July 7 - Purchased - 220 units @ Rs. 11  
July 18 - Issued - 200 units to production  
July 29 - Purchased - 100 units @ Rs. 12

Prepare Stores Ledger Account of the material for the month of July under FIFO Method of pricing issues.

(4×5=20)

## Part C

### Long Answer Questions

Answer any 2 questions. Each question carries 10 marks.

**19.** Enter the following transactions in the stores ledger of XYZ Ltd., pricing the materials under FIFO method. Show the balance of inventory after each transaction.

- Jan 1. Balance, 50 units at 50 ps per unit, Rs. 25.  
2. Ordered 200 units, purchase order 55, expected May 6.  
3. Issued 25 units, Requisition No. 100, Department A.  
4. Ordered 100 units, purchase order 65 expected May 6.  
5. Received 200 units at 30 ps per unit, purchase order No. 55.  
7. Issued 150 units; Requisition No. 105 production order 115.  
8. Returned to stock room 10 units from Department A, Requisition No. 100.  
10. Received 75 units at 75 paise per unit, purchase order 65.  
12. Ordered 100 units, purchase order 77, expected May 20.  
15. Issued 160 units, Requisition No. 125 Production order 328.  
18. Received 25 units, balance of purchase order 65, at 75 ps per unit.  
21. Issued 5 units, Requisition No. 130, Department B.  
23. Returned to vendor 15 units from purchase order 65 received on Jan. 18.  
25. Received 100 units, purchase order 77 at 50 ps per unit.  
27. Freight as purchase order 77 Rs. 25.  
29. Issued 50 units Dept. B.

**20.(a)** Find out the earnings of the workers on the basis of Merrick's differential piece rate system.

Normal piece rate : Rs. 10 per unit  
Standard production : 120 units per day.  
In an 8 hour day:  
X produced 90 units  
Y produced 100 units  
Z produced 132 units

**20.(b)** The following are the particulars applicable to a work process:

Time rate: Rs. 5 per hour.  
High task: 40 units per week.  
Piece rate above high task: Rs. 6.50 per unit.  
In a 40-hour week each of the following workers produced:  
A - 35 units; B - 40 units;  
C - 41 units; D - 52 units

Calculate the wages of the workers under Gantt's Task and Bonus Plan.

**21.** Shriram enterprises manufactures a special product 'W1Z'. The following information are available in respect of the product.

Monthly demand of 'W1Z' : 1500 units  
Annual carrying cost per unit : Rs. 18  
Minimum usage : 30 units per week  
Reorder period : 3 to 6 weeks  
Cost of placing an order : Rs. 75  
Normal usage : 60 units per week  
Maximum usage : 80 units per week

Compute: (1) Reorder quantity (2) Reorder level (3) Minimum level (4) Maximum level (5) Average stock level.

(2×10=20)

QP CODE:

Reg.No: .....

Name : .....

**MAHATMA GANDHI UNIVERSITY,KOTTAYAM**

**MGU-BVOC (HONOURS) Regular Examination October 2026**

**Third Semester**

Skill Development Component (SDC)

**CUSTOMER RELATIONSHIP MANAGEMENT (CRM)**

2025 Admission Onwards

**Duration :2 Hours**

**Maximum Marks: 70**

**Remember (K), Understand (U), Apply (A),Analyse (An),Evaluate (E),Create (C),Skill(S),Interest (I) and Appreciation(Ap)**

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**PART A**

Answer in one or two sentences Answer any **10** questions, Each question carries **2** marks

1. Define Customer Relationship Management (CRM) and state its significance in tourism services. (CO1) [K]
2. What is CRM strategy? Mention any two objectives of CRM strategy. (CO1) [U]
3. What is customer segmentation? Why is segmentation important in CRM? (CO2) [U]
4. What is market intelligence in CRM? Mention any two sources of customer information. (CO2) [K]
5. What is CRM implementation? Mention any two issues involved in CRM implementation. (CO3) [K]
6. Differentiate between operational CRM and analytical CRM. (CO3) [U]
7. What is data mining? State one use of data mining in tourism CRM. (CO3) [U]
8. What is customer loyalty? Mention any two benefits of customer loyalty to a tourism organisation. (CO4) [U]
9. What is meant by ethical issues in CRM? Mention any two ethical concerns related to customer data. (CO4) [U]
10. What is meant by service quality in developing customer loyalty? (CO4) [U]
11. State any two roles of managers in customer relationship management in travel services. (CO3) [K]

12. What are the 3E measures used in the context of customer loyalty? (CO4) [K]

**(2×10=20)**

### **PART B**

Answer in Short Essays Answer any 6 questions. Each question carries 5 marks

13. Explain the concept and importance of CRM in the travel and tourism industry. Discuss its major benefits. (CO1) [U]

14. Explain CRM strategy and describe the process of customer segmentation with suitable tourism examples. (CO2) [U/A]

15. Discuss market intelligence and explain how customer information supports effective CRM decisions. (CO2) [An]

16. Explain the major issues and challenges involved in CRM implementation in travel services. (CO3) [An]

17. Distinguish between operational CRM and analytical CRM. Explain their relevance to travel-service organizations. (CO3) [U/A]

18. Explain data mining in CRM. What types of customer information are required for effective CRM? (CO3) [U/A]

19. Discuss the concept of customer loyalty and explain the process of developing customer loyalty. (CO4) [U]

20. Explain the relationship between service quality, the 3E measures and customer loyalty. (CO4) [An]

**(6×5=30)**

### **PART C**

Answer in Essay Answer any 2 questions, Each carries 10 marks

21. Explain CRM strategy in detail. Discuss customer segmentation and market intelligence and show how they help a tourism organization build effective customer relationships. (CO1 & CO2) [An/E]

22. Explain CRM implementation in travel services. Discuss implementation issues, operational CRM, analytical CRM, the role of managers, customer information and data mining. (CO3) [An/E]

23. Discuss customer loyalty in CRM. Explain the process of developing customer loyalty, the role of service quality, the 3E measures, employee change and ethical issues in CRM. (CO4) [An/E]

**(10×2=20)**

MAHATMA GANDHI UNIVERSITY, KOTTAYAM  
MGU-BVOC (HONOURS) BANKING AND FINANCIAL SERVICES  
Third Semester  
MG3SDCBFS202 - AI in Banking

Time: 1hr 30mins

Maximum Marks: 50

**PART A – One sentence question**

Answer any 10 questions. Each question carries 2 marks.

1. Explain the meaning of AI
2. Explain the meaning of chatbots.
3. State 2 applications of AI in banking.
4. Explain the meaning of AML.
5. State any 2 techniques of Fraud detection using AI.
6. Explain the term Deep Learning.
7. Mention the meaning of Block chain.
8. Explain the term ML.
9. Mention the meaning of NLP.
10. Write any 2 uses of AI in finance.
11. Mention the meaning of Quantum Computing.
12. Explain the biometric authentication in banking.

[2x10 = 20]

**PART B - Short Essay Questions**

Answer any 3 questions. Each question carries 5 marks.

13. Explain the role of AI in investment advisory and portfolio management.
14. Mention the meaning of the virtual assistant and its benefits to banks and customers.
15. Explain the importance of AML.
16. Briefly explain the evolution and history of AI.
17. Explain the benefits of credit risk management.

[3x5=15]

### **PART C - ESSAY QUESTIONS**

Answer any 1 question. Each question carries 15 marks.

18. Explain the various ethical consideration and challenges in AI adoption.
19. Explain the various Risk Assessment Models used in AI with their implications. **[1x15 = 15]**



1. State any two features of the Kerala economy. (U) (CO1)
2. Name two major own tax revenue sources. (U) (CO1)
3. What is Motor vehicle tax? (U) (CO1)
4. What are the major sources of Non-Tax revenue? (U) (CO1)
5. List out the types of Grants. (U) (CO1)
6. State one measure to overcome GST-related challenges in Kerala. (U) (CO2)
7. What are the challenges to State Financial Autonomy. (U) (CO1)
8. What did GST replace? (U) (CO2)
9. What is the main objective of GST? (U) (CO2)

10. What is digital compliance under GST? (U) (CO2)
11. State one tax benefit available to tourism-related activities. (U) (CO3)
12. State one benefit of promoting the agricultural sector. (U) (CO3)
13. State two government incentive that may support IT Park development.  
(U) (CO3)
14. What is a startup? (U) (CO3)
15. Who generally pays property tax? (U) (CO3)
16. Name one tax collected by Municipalities. (U) (CO3)
17. What is the main function of the GST Council? (U) (CO2) **(15\*2=30)**

**PART B MCQ Answer any 10 questions carries 2 marks**

18. Which is the major source of revenue for the government of Kerala?  
a. Donations b. Taxes c. Loans d. Grants (U) (CO1)
19. Which of the following is a direct tax?  
a. GST b. Income tax c. Customs duty d. Excise Duty (U) (CO1)
20. GST is an example of:  
a. Direct Tax b. Indirect Tax c. Wealth Tax d. Property Tax (U) (CO1)
21. State financial autonomy refers to:  
A) Independence in foreign trade B) Freedom to manage state finances  
C) Collection of customs duty D) Export promotion (U) (CO1)
22. Which period is associated with the earliest tax system in Kerala?  
A) British period B) Ancient and Medieval period  
C) Post-independence period D) GST period (U) (CO2)
23. Licence fees collected by the government are classified as:  
A) Tax Revenue B) Non-Tax Revenue  
C) Capital Receipt D) Public Debt (U) (CO2)
24. Revenue received through taxes is called:

- A) Capital Revenue B) Tax Revenue  
C) Non-Tax Revenue D) Borrowed Revenue (U) (CO2)

25. Tax incentives in the Tourism sector are mainly intended to

- A. Reduce tourism activities  
B. Encourage investment in tourism infrastructure  
C. Increase unemployment  
D. Reduce tourist arrivals (U)(CO3)

26. Tax benefits to the agricultural sector are mainly provided to

- A. Discourage farming  
B. Promote agricultural development  
C. Increase import of food products  
D. Reduce agricultural production (U)(CO3)

27. which is a major objective of providing incentives to IT Parks?

- A. Creating employment opportunities  
B. Reducing technological development  
C. Discouraging IT companies  
D. Increasing unemployment (U)(CO3)

28. E-governance refers to the use of \_\_\_\_ in providing government services

- A. Information and communication technology  
B. Traditional methods only  
C. Manual registers only  
D. Cash transactions only (U)(CO3)

29. The power of a Municipality to impose certain local taxes is mainly intended to

- A. Generate revenue for local administration  
B. Reduce local services  
C. Control national taxation  
D. Replace the Central Government (U)(CO3)

**(10\*2=20)**

QP CODE:

Reg.NO: .....

Name : .....

**MAHATMA GANDHI UNIVERSITY,KOTTAYAM**

**MGU-BVOC (HONOURS) Regular Examination 2026**

**Third Semester**

**Skill Development Components(SDC) –MG3SDCAAG200- FUNDAMENTALS OF  
ANIMATION(2025 ADMISSION ONWARDS)**

**Duration :2 Hours**

**Maximum Marks: 70**

**Remember (K), Understand (U), Apply (A),Analyse (An),Evaluate (E),Create  
(C),Skill(S),Interest (I) and Appreciation(Ap)**

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**PART A**

Short Answer

Answer any 5 questions, Each question carries 2 marks

1. Who invented the use of cels? [K / CO1]
2. Which animation principle is used to apply simple objects? [U / CO2]
3. What is light box? [U / CO3]
4. What is safe area? [K / CO5]
5. What is meant by OTS? [K / CO4]
6. Clean-up. [K / CO3]
7. POV? [K / CO4]
8. What is Master Shot? [K / CO4]

**[2x5 =**

**10]**

## **PART B**

### **Short Essay Questions**

Answer any **6** questions, Each question carries **5** marks

9. Explain the early devices of animation. [U / CO1]
10. Explain Arc and Timing with examples. [A / CO2]
11. Define Aspect Ratio. [U / CO5]
12. Explain Animation and Types of Animation. [U / CO2]
13. Elaborate Exaggeration, with suitable examples. [A / CO2]
14. Explain the use of exposure sheet used in animation [U / CO3]
15. What are the different Camera shots? Explain. [U / CO4]
16. Explain the Camera angles. [An / CO4]

**[5x6 = 30]**

## **PART C**

### **Essay**

Answer any **2** questions, Each question carries **15** marks

17. Explain pre-history of animation/ Development of animation. [K / CO1]
18. Framing and composition are primary factors to be considered in animation production. Explain. [E / CO4]
19. Why is it important to understand the principles and concept of animation?. [E / CO2]

**[15x2 = 30]**

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**B.Voc (Honours) Banking & Financial Services**  
**THIRD SEMESTER**

**MG3MPCBFS200 – Recent Trends in Financial Services**

Time: 1.30 Hours

Maximum Marks: 50

**PART A – Short Answers**

**Answer any 10 questions. Each question carries 2 marks.**

1. What is Artificial Intelligence (AI) in financial services?
2. State any two applications of AI in banking.
3. What is AI-driven fraud detection?
4. What is risk assessment in banking?
5. What is a chatbot in customer service?
6. Define predictive analytics.
7. What is customer engagement through AI tools?
8. What is robo-advisory in investment management?
9. What is a Mutual Fund?
10. State any two types of Mutual Funds.
11. What is the role of SEBI in Mutual Funds?
12. Define NAV (Net Asset Value).

**(10 × 2 = 20 Marks)**

**PART B – Short Essays**

**Answer any 6 questions. Each question carries 5 marks.**

13. Explain the history and evolution of AI in financial services with suitable examples.
14. Discuss AI techniques used for fraud detection in banking and explain one case study.
15. Explain AI-powered risk assessment models and their role in risk management.

16. Discuss chatbots, virtual assistants and predictive analytics in improving customer experience.
17. Explain AI in investment advisory and portfolio management. Discuss future opportunities and challenges.
18. Describe the meaning, concept and evolution of Mutual Funds in India.
19. Explain the classification of Mutual Funds with suitable examples.
20. Discuss the role of Asset Management Companies (AMCs) and SEBI in the Mutual Fund industry.
21. Explain investor awareness initiatives of AMFI and SEBI in promoting financial literacy.
22. Analyse SIP, STP, SWP and Lump Sum investment. Discuss taxation (LTCG & STCG), expense ratio and exit load.

**(6 × 5 = 30 Marks)**

**QPCODE**

**Reg.No** : .....

**Name** : .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) DEGREE EXAMINATION MONTH, YEAR**  
**THIRD SEMESTER**  
**SEMESTER III**  
**MG3MDCBAJ200 MALAYALAM JOURNALISM**  
(2025 Admission onwards)

**Duration: 1.5 hours**

**Maximum Marks: 50**

**Part A**

MCQ/fill in the blanks

Answer all questions

Each question carries **8** marks

1. Expand TRP
2. Paid News
3. Fake News
4. Misinformation
5. Media Convergence
6. Paschimodayam
7. Jnananikshepam
8. Herman Gundert

**[1x8 = 08]**

**Part B**

Short Answers

Answer any **6** questions

Each question carries **2** marks

9. Prepare a brief profile of Swadeshabhimani Ramakrishna Pillai
10. Analyse the role of Rajyasamacharam in the history of Malayalam Journalism
11. Differentiate TV reporting and Newspaper reporting
12. Comment on the rise of conglomerate media patterns in India
13. Explain the role of internet in the dissemination of news
14. Briefly comment on the evolution of Malayalam Journalism
15. Mention the contributions of the newspapers after the independence
16. Analyse 'Nere Chovve', the interview programme, as a mass communication tool
17. Describe John Brittas as a journalist
18. Describe Shani Prabhakar as a news presenter and discussion moderator

**[2x6 = 12]**

**Part C**

Short Essay Questions

Answer any **4** questions

Each question carries **4** marks

19. Define Cross Media Ownership
20. Summarize the evolution of TV News in Malayalam
21. Identify the importance of 24x7 News Culture in Malayalam
22. Recognize the challenges in Malayalam TV Journalism
23. Analyse the new trends in Malayalam Journalism with suitable examples
24. Explain the steps to prevent Misinformation in media
25. Analyse the impact of political affiliations and ownership on media independence

**[4x4 = 16]**

**Part D**

Essay

Answer any **2** questions  
Each question carries **7** marks

26. Summarize the role of the legends in the history of Malayalam Journalism
27. Define modern journalism principles in the context of internet and social media
28. Analyse the issues and challenges involved in modern journalism

**[7x2 = 14]**

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-B.Voc (Honours) Banking & Financial Services**  
**THIRD SEMESTER**  
**MG3SDCBFS201 – Mutual Funds**

**Time: 1.30 Hours**

**Maximum Marks: 50**

**PART A**

**Short Answers**

**Answer any 10 questions.**  
**Each question carries 2 marks.**

1. What is a Mutual Fund?
2. State any two types of Mutual Funds.
3. What is the role of an Asset Management Company (AMC)?
4. What is NAV? How is it calculated?
5. What is KYC? Why is it important in mutual fund investment?
6. What is SIP? State one advantage of SIP.
7. What are Index Funds?
8. Distinguish between Direct Plan and Regular Plan.
9. What are ETFs?
10. What is an ESG Fund?
11. What are Thematic Mutual Funds? Give two examples.
12. What is Expense Ratio?

**[10 × 2 = 20]**

**PART B**

## **Short Essays**

**Answer any 6 questions.  
Each question carries 5 marks.**

13. Explain the meaning, concept and evolution of Mutual Funds in India.
14. Explain the structure of Mutual Funds in India with reference to the Sponsor, Trustee and Asset Management Company (AMC).
15. Explain the importance of Mutual Funds in personal financial planning.
16. Explain the recent developments in the Mutual Fund industry with special reference to SIPs, Index Funds and ETFs.
17. Distinguish between Direct Plans and Regular Plans of Mutual Funds.
18. Explain the role of SEBI in the regulation and categorisation of Mutual Funds.
19. Explain ESG Mutual Funds and discuss the importance of Environmental, Social and Governance considerations in investment.
20. Explain Thematic Mutual Funds with suitable examples such as Technology, Infrastructure and Healthcare funds. Distinguish between global and domestic themes.
21. Explain the role of AMFI investor awareness campaigns and SEBI awareness programmes in promoting mutual fund investment.
22. Explain the impact of market cycles on mutual fund investments. Discuss taxation and returns with reference to LTCG, STCG, ELSS, Expense Ratio and Exit Load.

[6 × 5 = 30]

Reg.No: .....

Name: .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-B.VOC (HONOURS) REGULAR EXAMINATION**  
**THIRD SEMESTER**

**Minor Pathway Courses (MPC)-MG3MPCBLM200-BUSINESS**  
**MANAGEMENT**  
**(2025 Admission Onwards)**

**Duration: 1 hour30 minutes**

**Maximum Marks: 50**

**Remember(R), Understand (U), Apply (A), Analyze (An), Evaluate (E), Create(C),  
Skills(S), Interest (I), and Appreciation (Ap)**

**PART A**

**VERY SHORT ANSWER**

Answer any 10 Questions.

Each question carries 1 mark

- |                                     |         |
|-------------------------------------|---------|
| 1. What is planning?                | (U/CO2) |
| 2. What is MBO?                     | (U/CO1) |
| 3. What is scalar principle?        | (R/CO1) |
| 4. Define selection.                | (U/CO3) |
| 5. What is meant by PERT?           | (U/CO5) |
| 6. Expand PODSCORB.                 | (U/CO1) |
| 7. Define paternalistic leadership. | (R/CO4) |
| 8. What is meant by work-study?     | (U/CO1) |
| 9. Define management.               | (R/CO1) |
| 10. What are standing plans?        | (U/CO2) |
| 11. What is meant by grapevine?     | (U/CO3) |
| 12. What is Unity of Direction?     | (U/CO1) |

**(10x1=10)**

**PART B**

**SHORT ANSWER**

Answer any 4 Questions.

Each question carries 5 marks

- |                                                               |                         |
|---------------------------------------------------------------|-------------------------|
| 13. Enumerate the objectives of management?                   | (R/ CO1)                |
| 14. Explain the objectives and features of MBO.               | (U/CO1)                 |
| 15. Distinguish between formal and informal organisation.     | (A/CO3)                 |
| 16. Describe the need and importance of policies.             | (U/CO2)                 |
| 17. Describe the elements and tools of scientific management. | (U/CO2)                 |
| 18. Explain Maslow's need Hierarchy Theory.                   | (U/CO4) <b>(4x5=20)</b> |

**PART C**  
**ESSAY**

Answer any 2 Questions.  
Each question carries 10 marks.

- |                                                                |              |
|----------------------------------------------------------------|--------------|
| 19. "Plan is a trap laid down to capture the future" .Explain. | (U/CO2)      |
| 20. "Control cannot be exercised without planning". Elaborate. | (U/CO2, CO4) |
| 21. Explain Henry Fayol's principles of management.            | (U/CO1)      |

**(2x10=20)**



Name: .....

**Max Marks: 50**

1. A sale is made within Kerala. Which tax combination is applicable? (An) (CO1)
  - a) IGST
  - b) CGST and SGST
  - c) CGST only
  - d) SGST only
2. Which of the following is used to identify the classification of goods in GST? (R) (CO1)
  - a) HSN
  - b) PAN
  - c) TAN
  - d) IFSC
3. Where is GST enabled for a company in Tally Prime? (An) (CO2)
  - a) F11 – Company Features
  - b) F12 – Configuration
  - c) Day Book
  - d) Calculator Panel
4. Which code is generally used for classifying services under GST? (A) (CO2)
  - a) HSN
  - b) SAC
  - c) IFSC
  - d) MICR
5. Which voucher is used to enter a sales invoice in Tally Prime? (R) (CO3)
  - a) Purchase
  - b) Sales
  - c) Payment
  - d) Receipt
6. A purchase return is recorded using which voucher in Tally Prime? (An) (CO3)
  - a) Credit Note
  - b) Debit Note
  - c) Receipt
  - d) Contra
7. Which option is used to record GST liability under Reverse Charge in Tally Prime? (R) (CO4)

- |            |                         |  |
|------------|-------------------------|--|
| a) RCM     | c) Cost Centre          |  |
| b) Payroll | d) Interest Calculation |  |
8. Which document is used for the movement of goods? (A) (CO5)
- |               |                    |
|---------------|--------------------|
| a) E-Way Bill | c) Delivery Note   |
| b) Debit Note | d) Receipt Voucher |
9. Which return is used to report outward supplies? (An) (CO6)
- |            |            |
|------------|------------|
| a) GSTR-1  | c) GSTR-3B |
| b) GSTR-2B | d) GSTR-9  |
10. Which return is used to report summary GST liability and input tax credit? (E) (CO6)
- |            |            |
|------------|------------|
| a) GSTR-1  | c) GSTR-3B |
| b) GSTR-2A | d) GSTR-9C |

**PART B**  
**SHORT ANSWER**

Answer any 5 Questions.  
Each question carries 4 marks

11. Explain CGST, SGST, and IGST. (U) (CO1)
12. Analyse the significance of GST rates and cess rates in determining the tax liability of a business. (An) (CO2)
13. Explain the procedure for activating GST for a company in Tally Prime and configuring the basic GST details. (U) (CO3)
14. Apply the appropriate HSN/SAC codes and GST rates while configuring a stock item or ledger in Tally Prime. (A) (CO3)
15. Explain the treatment of sales and purchase returns in GST-enabled transactions in Tally Prime. (U) (CO4)
16. Analyse the treatment of a transaction under the Reverse Charge Mechanism in Tally Prime. (An) (CO5)
17. Explain the purpose of GSTR-1, GSTR-2, and GSTR-3B reports generated in Tally Prime. (U) (CO5)
18. Analyse the importance of GST tax analysis and report verification before filing GST returns. (An) (CO6)

**PART C**  
**ESSAY**

Answer any 2 Questions.  
Each question carries 10 marks

19. Explain the different types of supply under GST and analyse the applicability of CGST, SGST, and IGST in intra-state and inter-state transactions. (An) (CO1)
20. Explain the configuration of GST registration details, GSTIN, GST rates, HSN/SAC codes, and GST classifications, and discuss their importance in accurate GST accounting.

(U) (CO2)

21. Discuss the recording of intra-state and inter-state transactions, sales and purchase returns, and transactions under the Reverse Charge Mechanism, with suitable examples.

(A) (CO3)

22. Discuss the complete process of GST return filing using Tally Prime. Evaluate the importance of accurate reporting and verification in ensuring GST compliance. (E) (CO4)

Reg.No : .....

Name : .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) MODEL EXAMINATION, 2026**

**THIRD SEMESTER**

**Skill Development Components (SDC) - MG3SDCSNP202 - ELECTROTHERAPY**

**(2025 ADMISSION ONWARDS)**

**Duration: 1 hour 30 minutes**

**Maximum Marks: 50**

Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I) and Appreciation(Ap)

*Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.*

**Part A**

**Objective Type Questions**

**Answer all questions, Each question carries 1 mark**

1. What is current electricity? [K] / [CO1]
2. What is an electrode? [K] / [CO1]
3. Name one type of current used in electrotherapy. [K] / [CO1]
4. What is galvanic current? [K] / [CO2]
5. Define chronaxie. [K] / [CO2]
6. Expand TENS. [K] / [CO2]
7. What is Interferential Therapy (IFT)? [K] / [CO3]
8. What is phonophoresis? [K] / [CO3]
9. Name one type of ultraviolet radiation. [K] / [CO4]
10. What is contrast bath therapy? [K] / [CO4]

**[1 × 10 = 10 Marks]**

**Part B**

**Short Answer Questions**

**Answer any 10 questions, Each question carries 2 marks**

11. Differentiate between direct current and alternating current. [U] / [CO1]
12. Mention any two factors considered while selecting an electrode. [U] / [CO1]

13. What are unipolar and bipolar electrode placements? [U] / [CO1]
14. State two physiological effects of faradic current. [U] / [CO2]
15. Define rheobase and state its significance. [U] / [CO2]
16. Mention any two types of TENS and their uses. [U] / [CO2]
17. State the basic principle of Interferential Therapy. [U] / [CO3]
18. Mention two therapeutic effects of Shortwave Diathermy. [U] / [CO3]
19. What is the piezoelectric effect in ultrasound therapy? [U] / [CO3]
20. Mention two physiological effects of Infrared Radiation. [U] / [CO4]
21. State two therapeutic uses of ultraviolet radiation. [U] / [CO4]
22. Mention two precautions to be followed during cryotherapy. [U] / [CO4]

**[2 × 10 = 20 Marks]**

### **Part C**

#### **Short Essay Questions**

**Answer any 5 questions, Each question carries 4 marks**

23. Explain the basic physical principles of electrotherapy, including static electricity, current electricity, magnetism and the electromagnetic spectrum. [U] / [CO1]
24. Describe the types of electrodes and explain the principles of unipolar and bipolar electrode placement. [An] / [CO1]
25. Explain faradic and galvanic currents with their physiological effects and therapeutic applications. [An] / [CO2]
26. Describe rheobase, chronaxie and the strength-duration curve and explain their importance in electrodiagnosis. [An] / [CO2]
27. Explain the principles, dosage parameters and therapeutic applications of Interferential Therapy and Russian current. [An] / [CO3]
28. Describe Shortwave Diathermy and ultrasound therapy with respect to principles, physiological effects and therapeutic uses. [An] / [CO3]
29. Explain the principles, therapeutic applications and safety precautions of phototherapy and superficial thermal modalities. [U] / [CO4]

**[4 × 5 = 20 Marks]**

Reg.No : .....

Name : .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) Model Examination February 2026**

**THIRD SEMESTER**

**Skill Development Components (SDC) - MG3SDCSNP201 - FAMILY MEAL  
MANAGEMENT  
(2025 ADMISSION ONWARDS)**

**Duration: 1 hour 30 minutes**

**Maximum Marks: 50**

Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I)  
and Appreciation(Ap)

Students should attempt at least one question from each course outcome to enhance their overall  
outcome attainability.

**Part A**

**One Word Questions**

**Answer all questions, Each question carries 1 marks**

1. Define menu planning. [K] / [CO1]
2. What is a balanced diet? [K] / [CO1]
3. Name any one factor affecting meal planning. [K] / [CO1]
4. What is weaning? [K] / [CO2]
5. Mention one advantage of breastfeeding. [K] / [CO2]
6. Name one common nutrition-related problem in preschool children. [K] / [CO2]
7. What is meant by junk food culture? [K] / [CO3]
8. Name one health problem associated with obesity. [K] / [CO3]
9. Mention one nutritional complication of pregnancy. [K] / [CO4]
10. Name one common nutrition-related problem in old age. [K] / [CO4]

**[1x10 = 10 Marks]**

**Part B**

**Short Answer Questions**

**Answer any 10 questions, Each question carries 2 marks**

11. State any two objectives of meal planning. [U] / [CO1]
12. List any four factors affecting meal planning. [K] / [CO1]
13. Mention the role of food groups in menu planning. [U] / [CO1]
14. State any two nutritional requirements of infants. [U] / [CO2]
15. Mention two advantages of breastfeeding. [U] / [CO2]

16. What are the objectives of school lunch programmes? [U] / [CO2]
17. Mention two nutritional concerns during adolescence. [U] / [CO3]
18. State two dietary modifications required according to activity level in adults. [U] / [CO3]
19. Mention two nutritional concerns associated with obesity or diabetes mellitus. [U] / [CO3]
20. State two nutritional requirements during pregnancy. [U] / [CO4]
21. Mention two dietary recommendations during lactation. [U] / [CO4]
22. State two common nutrition-related problems in elderly individuals. [U] / [CO4]

**[2x10 = 20 Marks]**

### **Part C**

#### **Short Essay Questions**

**Answer any 5 questions, Each question carries 4 marks**

23. Explain the principles of menu planning and the factors to be considered while planning a balanced diet. [U] / [CO1]
24. Describe the nutritional requirements of infancy and explain the importance of breastfeeding and appropriate weaning. [U] / [CO2]
25. Discuss the nutritional needs of preschool and school-age children and explain the importance of healthy packed lunches. [An] / [CO2]
26. Explain the increased nutritional demands during adolescence and discuss common unhealthy food choices and eating habits. [An] / [CO3]
27. Describe dietary modifications for adults with different activity levels and discuss meal planning for obesity and diabetes mellitus. [An] / [CO3]
28. Explain the nutritional requirements during pregnancy and discuss nutritional management of common complications of pregnancy. [An] / [CO4]
29. Explain the physiological and psychological changes of old age and discuss dietary management of common nutritional problems in the elderly. [An] / [CO4]

**[4x5 = 20 Marks]**

Reg.No : .....

Name : .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) MODEL EXAMINATION, 2026**  
**THIRD SEMESTER**  
**Skill Development Components (SDC)**  
**MG3SDCSNP200 – BIOMECHANICS**  
**(2025 ADMISSION ONWARDS)**

**Duration: 2 Hours**

**Maximum Marks: 70**

Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Skill (S), Interest (I) and Appreciation (Ap)

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**PART A**

**Short Answer Questions**

**Answer any 10 questions, Each question carries 2 marks**

1. Define biomechanics. Mention any two areas of its importance in physiotherapy. [K] / [CO1]
2. Differentiate between linear motion and angular motion. [U] / [CO1]
3. What is mechanical advantage? Mention its significance in human movement. [U] / [CO1]
4. What is a closed kinetic chain? Give one example from the lower limb. [K] / [CO1]
5. List the three structural classifications of joints. [K] / [CO2]
6. Mention any four structural components of a synovial joint. [K] / [CO2]
7. What are the main functions of the rib cage? [U] / [CO2]
8. Name the major regions of the vertebral column. [K] / [CO2]
9. Mention the major movements possible at the temporomandibular joint (TMJ). [K] / [CO2]
10. What is scapulohumeral rhythm? [K] / [CO3]
11. Define prehension and mention its importance in hand function. [K] / [CO3]
12. Define gait cycle. [K] / [CO4]

**[2 × 10 = 20 Marks]**

**PART B**

**Short Essay Questions**

**Answer any 6 questions, Each question carries 5 marks**

13. Explain the planes and axes of human movement with suitable examples. [U] / [CO1]
14. Describe the three types of levers in the human body with suitable examples. [U] / [CO1]
15. Explain the structure and functional characteristics of synovial joints, including degrees of freedom. [U] / [CO2]
16. Describe the biomechanics of the thorax and chest wall during ventilatory movements. [U] / [CO2]
17. Explain the regional biomechanics of the vertebral column, with reference to the cervical, thoracic and lumbar regions. [U] / [CO2]
18. Discuss the functional biomechanics of the shoulder complex. [An] / [CO3]
19. Explain the structural and functional biomechanics of the knee and ankle-foot complexes. [An] / [CO3]
20. Describe the normal gait cycle and its major phases. [U] / [CO4]
21. Explain common gait malalignments and their biomechanical consequences. [An] / [CO4]

**[5 × 6 = 30 Marks]**

### **PART C**

#### **Essay Questions**

**Answer any 2 questions, Each question carries 10 marks**

22. Explain the basic biomechanical concepts of force, work, energy, power, equilibrium and friction, and discuss their application to human movement. [U] / [CO1]
23. Discuss in detail the biomechanics of the vertebral column, including regional structure and function and the role of the muscles of the vertebral column. [An] / [CO2]
24. Analyse the functional biomechanics of the hip, knee, ankle and foot during weight-bearing and common functional activities. [An] / [CO3]
25. Explain the biomechanics of normal and pathological gait, and discuss the biomechanical principles of posture and ergonomics in physiotherapy practice. [E] / [CO4]

**[10 × 2 = 20 Marks]**

QP CODE:

Reg.No: .....

Name : .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**MGU-BVOC (HONOURS) Regular Examination October 2026**

**Third Semester**

**Skill Development Components (SDC)- MG3SDCSDS200 – SOFTWARE ENGINEERING &**

**SOFTWARE TESTING PRINCIPLES**

**(2025 ADMISSION ONWARDS)**

**Duration :2 Hours**

**Maximum Marks: 70**

**Remember (K), Understand (U), Apply (A),Analyse (An),Evaluate (E),Create(C)**

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**Part A**

Very Short Answer Questions

Answer any **10** questions

Each question carries **2** marks

- |    |                                                                                                                           |        |
|----|---------------------------------------------------------------------------------------------------------------------------|--------|
| 1. | Define Software Engineering and state its main objective?                                                                 | [K][1] |
| 2. | A software project has fixed and clearly defined requirements. Which development model would you choose? Give one reason? | [U][1] |
| 3. | Mention any two size estimation techniques?                                                                               | [K][1] |
| 4. | What is code review? List any two defects that can be identified during code review.                                      | [K][2] |
| 5. | Define verification and validation?                                                                                       | [U][2] |
| 6. | What is a Test Case? Mention any two components of a test case?                                                           | [U][2] |
| 7. | List the four levels of software testing?                                                                                 | [K][3] |

- |     |                                                             |        |
|-----|-------------------------------------------------------------|--------|
| 8.  | Distinguish between Alpha testing and Beta testing?         | [U][3] |
| 9.  | State objective of statement coverage in white box testing? | [U][3] |
| 10. | Expand CMMI and state it's meaning?                         | [K][4] |
| 11. | What is Regression Testing? State its purpose               | [K][4] |
| 12. | Mention any two benefits of software reengineering?         | [U][4] |

**[2x10 = 20]**

### **Part B**

Short Answer Questions

Answer any **4** questions

Each question carries **5** marks

- |     |                                                                                                                                                                                                                                 |         |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 13. | Explain Function Point Analysis (FPA). Describe the five functional components used in FPA with suitable examples?                                                                                                              | [U][1]  |
| 14. | Define module coupling and module cohesion. Explain their types with suitable examples?                                                                                                                                         | [U][1]  |
| 15. | Describe the phases of STLC with a suitable example of testing a login system?                                                                                                                                                  | [A][2]  |
| 16. | A login module contains separate functions for validating username and password. How would you apply Unit Testing to verify these functions? Describe the steps of Unit Testing and design suitable test case?                  | [U][3]  |
| 17. | A web application needs to be tested across multiple browsers and platforms. Explain how Selenium WebDriver can be used for automation testing. Discuss its major features and applications of Selenium with suitable examples? | [An][4] |
| 18. | Explain the different types of software maintenance with suitable examples?                                                                                                                                                     | [U][4]  |

**[5x4 = 20]**

### **Part C**

Essay Questions

Answer any **2** questions

Each question carries **15** marks

- |     |                                                                                                                                      |        |
|-----|--------------------------------------------------------------------------------------------------------------------------------------|--------|
| 19. | What is Software Development Life Cycle (SDLC)? Describe the different phases of SDLC and mention the main activities in each phase? | [U][1] |
|-----|--------------------------------------------------------------------------------------------------------------------------------------|--------|

20. Explain the concepts of Static Testing and Dynamic Testing. Discuss the major techniques of each testing approach with suitable examples? [An][2]
21. Discuss Black Box Testing with reference to Boundary Value Analysis and Equivalence Partitioning, using suitable examples? [An][3]
22. Discuss Software Quality Assurance (SQA) with reference to its activities and goals. Describe SQA standards such as ISO 9001 and CMMI, and discuss the role of reviews and audits in ensuring software quality? [An][4]

**[15x2 = 30]**

**QPCODE:**

**Reg.No :** .....

**Name :** .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) Regular Examination October 2026**

**Third Semester**  
**Skill Development Components (SDC):MG3SDCFDM200 – FASHION**  
**MARKETING AND MERCHANDISING**  
**(2025 ADMISSION ONWARDS)**

**Duration:2 Hours**

**Maximum Marks: 70**

***Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I) and Appreciation(Ap)***

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**Part A**

Multiple Choice Questions

Answer all questions

Each question carries **1** marks

1. Which of the following is not a component of the traditional marketing mix? [U] / [CO:1]
  - a) Product
  - b) Price
  - c) Place
  - d) People
  
2. The value assigned to a product is known as: [U] / [CO:1]
  - a) Promotion
  - b) Price
  - c) Place
  - d) Product

3. STP in marketing stands for: [U] / [CO:1]
- a) Sales, Trade and Promotion
  - b) Segmentation, Targeting and Positioning
  - c) Strategy, Trade and Product
  - d) Sales, Targeting and Promotion
4. Which of the following refers to building a brand image in the mind of the customer? [U] / [CO:1]
- a) Segmentation
  - b) Targeting
  - c) Positioning
  - d) Distribution
5. Which is a direct channel of distribution? [U] / [CO:1]
- a) Producer → Retailer → Consumer
  - b) Producer → Wholesaler → Retailer → Consumer
  - c) Producer → Consumer
  - d) Producer → Agent → Wholesaler → Retailer → Consumer
6. Dividing customers according to age, gender and income is called: [A] / [CO:2]
- a) Geographic segmentation
  - b) Psychographic segmentation
  - c) Demographic segmentation
  - d) Behavioural segmentation
7. Which segmentation is based on the location of customers? [A] / [CO:2]
- a) Demographic
  - b) Geographic
  - c) Psychographic
  - d) Behavioural
8. Lifestyle and personality are important factors in: [A] / [CO:2]
- a) Demographic segmentation
  - b) Geographic segmentation
  - c) Psychographic segmentation
  - d) Behavioural segmentation

9. A company targeting "college students living in Kochi" is using: [A] / [CO:2]  
a) Behavioural segmentation  
b) Geo-demographic segmentation  
c) Psychographic segmentation  
d) Geographic segmentation
10. Buying a particular brand repeatedly because of brand loyalty is an example of: [A] / [CO:2]  
a) Demographic behaviour  
b) Geographic behaviour  
c) Behavioural segmentation  
d) Psychographic segmentation
11. A retailer is: [U] / [CO:3]  
a) A producer of raw materials  
b) The final link between producer and consumer  
c) A person who only transports goods  
d) A person who manufactures garments
12. Which of the following is an example of online retailing? [U] / [CO:3]  
a) Buying from a street market  
b) Buying from a department store  
c) Buying fashion products through an e-commerce website  
d) Buying directly from a factory
13. Which of the following is a promotional tool? [U] / [CO:3]  
a) Advertising  
b) Pattern making  
c) Fabric testing  
d) Grading
14. A fashion show conducted to display a new collection is an example of: [U] / [CO:3]  
a) Product development  
b) Fashion promotion

- c) Market segmentation
- d) Distribution

15. Window display is mainly associated with: [U] / [CO:3]
- a) Visual merchandising
  - b) Production planning
  - c) Market research
  - d) Costing
16. Which type of merchandise is regularly purchased and has relatively stable demand? [U] / [CO:4]
- a) Fashion merchandise
  - b) Seasonal merchandise
  - c) Staple merchandise
  - d) FAD merchandise
17. Which of the following is one of the six rights of merchandising? [U] / [CO:4]
- a) Right customer
  - b) Right product
  - c) Right advertisement
  - d) Right employee
18. A person responsible for buying merchandise for a retail organisation is called a: [U] / [CO:4]
- a) Fashion illustrator
  - b) Buyer
  - c) Pattern maker
  - d) Stylist
19. Which sample is normally the first sample developed to show the basic design? [U] / [CO:4]
- a) Photo sample
  - b) Proto sample
  - c) TOP sample
  - d) Fit sample

20. TOP stands for: [U] / [CO:4]
- a) Top Order Product
  - b) Total Order Production
  - c) Top of Production
  - d) Type of Product

**[1x20 = 20]**

### **Part B**

One or Two Sentence Questions

Answer all questions

Each question carries **2** marks

21. Define marketing mix and list its four elements. [U] / [CO:1]
22. What is targeting in the STP process? [U] / [CO:1]
23. What is psychographic segmentation? Give one example from fashion marketing. [A] / [CO:2]
24. What is fashion promotion? Mention any two promotional tools. [A] / [CO:3]
25. What are the six rights of merchandising? [A] / [CO:4]

**[2x5 = 10]**

### **Part C**

Short Answers Questions

Answer all questions

Each question carries **5** marks

26. Explain the three stages of STP – Segmentation, Targeting and Positioning with suitable fashion examples. [U] / [CO:1]
27. Explain the different types of customer segmentation used in fashion marketing. [A] / [CO:2]
28. Explain the different types and levels of fashion promotion with suitable examples. [U] / [CO:3]
29. Explain the different types of merchandise: staple, fashion, seasonal and FAD merchandise. [U] / [CO:4]

**[5x4 = 20]**

### **Part D**

Short Essay Questions

Answer all questions

Each question carries **10** marks

30. Explain the marketing mix (4Ps) in detail. Discuss Product, Price, Place and Promotion with suitable examples from the fashion industry. [U] / [CO:1]
31. Explain fashion retailing and promotion in detail. Discuss the major types of fashion retailing and the important promotional tools used by fashion businesses. [U] / [CO:3]

**[10x2 = 20]**

Reg.No : .....

Name : .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**MGU-BVOC (HONOURS) MODEL EXAMINATION, 2026**

**THIRD SEMESTER**

**MG3SDCBFT200 - APPAREL MANUFACTURING FUNDAMENTALS**

(2025 ADMISSION ONWARDS)

**Duration: 2 hours**

**Maximum Marks: 70**

Remember(K), Understand(U), Apply(A), Analyze(An), Evaluate(E), Create(C), Skill(S), Interest(I) and Appreciation(Ap)

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**Part A**

**Very Short Answer Questions**

**Answer any 10 questions, Each question carries 2 mark**

1. What is meant by the clothing industry? [K] / [CO1]
2. Name any two product categories in the clothing industry. [K] / [CO1]
3. Name any two sectors of the clothing industry. [K] / [CO1]
4. Mention one infrastructure facility required in a clothing factory. [K] / [CO1]
5. What is a design sheet? [K] / [CO2]
6. What is a strike-off sample? [K] / [CO2]
7. What is a marker in garment production? [K] / [CO3]
8. Name any one method of spreading fabric. [K] / [CO3]
9. Name any one type of cutting machine used in the cutting room. [K] / [CO3]
10. What is fusing in garment production? [K] / [CO3]
11. Name any two finishing activities in garment manufacturing. [K] / [CO4]
12. What is warehousing? [K] / [CO4]

**[2 × 10 = 20 Marks]**

## **Part B**

### **Short Answer Questions**

**Answer any 6 questions, Each question carries 5 marks**

13. Explain the growth and structure of the clothing industry and identify the major product categories.  
[U] / [CO1]
14. Describe the different sectors of the clothing industry and explain the infrastructure and profile of a clothing factory. [U] / [CO1]
15. Explain the importance of design in production and describe the process involved in preparing a design sheet and developing a seasonal collection. [U] / [CO2]
16. Describe fabric development and analysis using desk-loom and strike-off methods. Explain sample analysis, approvals and counter samples. [U] / [CO2]
17. Explain fabric inspection in the cutting room and discuss the control of fabric and different methods of spreading. [U] / [CO3]
18. Explain the use and importance of markers, methods of laying patterns and yardage control in the cutting room. [U] / [CO3]
19. Describe sewing operations and production techniques used in garment manufacturing. [U] / [CO3]
20. Explain the types of fusing, operation of a fusing machine and the quality aspects to be considered in fusing. [U] / [CO3]
21. Explain the finishing process with reference to finishing room operations, pressing equipment, trimmings, packing, warehousing and shipping. [U] / [CO4]

**[5 × 6 = 30 Marks]**

## **Part C**

### **Essay Questions**

**Answer any 2 questions, Each question carries 10 marks**

22. Analyse the clothing industry as a manufacturing system. Discuss its history, growth and structure, major product categories, different industry sectors, and the infrastructure and profile of a clothing factory. [An] / [CO1]

23. Analyse the role of design in garment production. Explain the preparation of a design sheet, development of seasonal collections, fabric development and analysis through desk-loom and strike-off, sample approvals and the use of counter samples. [An] / [CO2]

24. Analyse the garment production process from fabric inspection and spreading through marker planning, pattern laying, yardage control, cutting, sewing and fusing. Explain the production techniques and quality aspects involved at each relevant stage. [An] / [CO3]

25. Analyse the finishing process in garment manufacturing. Discuss finishing-room activities, pressing equipment, trimmings, packing, warehousing and shipping, and explain how these operations contribute to the completion and dispatch of garments. [An] / [CO4]

**[10 × 2 = 20 Marks]**

Reg.No : .....

Name : .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) MODEL EXAMINATION, 2026**

**THIRD SEMESTER**

**MPC - MG3MPCPHS200 - ENVIRONMENTAL AND OCCUPATIONAL HEALTH**  
**(2025 ADMISSION ONWARDS)**

**Duration: 1 hour 30 minutes**

**Maximum Marks: 50**

Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I) and Appreciation(Ap)

*Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.*

**Part A**

**One Word Questions**

**Answer all questions, Each question carries 1 mark**

1. Define environmental health. [K] / [CO1]
2. What is environmental sanitation? [K] / [CO1]
3. Name one source of air pollution. [K] / [CO1]
4. What is biomedical waste? [K] / [CO2]
5. Name one type of radiation hazard. [K] / [CO2]
6. What is food safety? [K] / [CO2]
7. Define occupational hazard. [K] / [CO3]
8. What is ergonomics? [K] / [CO3]
9. What is climate change? [K] / [CO4]
10. What is disaster preparedness? [K] / [CO4]

**[1 × 10 = 10 Marks]**

**Part B**

**Short Answer Questions**

**Answer any 10 questions, Each question carries 2 marks**

11. Mention two objectives of environmental health. [U] / [CO1]
12. State two important aspects of safe drinking water quality. [U] / [CO1]

13. Mention two sources of air pollution and one control measure. [U] / [CO1]
14. List any two methods of solid waste management. [U] / [CO2]
15. Differentiate between solid waste and biomedical waste. [U] / [CO2]
16. Mention two health effects of noise pollution. [U] / [CO2]
17. What are occupational hazards? Give two examples. [U] / [CO3]
18. Mention two common occupational diseases or injuries. [U] / [CO3]
19. State two principles of workplace ergonomics. [U] / [CO3]
20. Mention two health impacts of climate change. [U] / [CO4]
21. Name any two environmental health legislations or regulatory measures relevant to India. [K] / [CO4]
22. State two important components of disaster preparedness and public health response. [U] / [CO4]

**[2 × 10 = 20 Marks]**

### **Part C**

#### **Short Essay Questions**

**Answer any 5 questions, Each question carries 4 marks**

23. Explain the scope and significance of environmental health and discuss the importance of environmental sanitation and safe water. [U] / [CO1]
24. Describe the major sources, health effects and control measures of air pollution. [An] / [CO1]
25. Explain solid waste and biomedical waste management and discuss their importance for public health and food safety. [An] / [CO2]
26. Discuss noise pollution and radiation hazards with their major health effects and preventive measures. [An] / [CO2]
27. Explain the major occupational hazards and occupational diseases and discuss preventive strategies in the workplace. [An] / [CO3]
28. Describe the principles of workplace safety and ergonomics and explain their role in preventing occupational injuries. [An] / [CO3]
29. Discuss environmental health legislation, climate change and disaster preparedness in relation to public health response. [E] / [CO4]

**[4 × 5 = 20 Marks]**

Reg.No : .....

Name : .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BVOC (HONOURS) MODEL EXAMINATION, 2026**

**THIRD SEMESTER**

**Multi-Disciplinary Course (MDC) - MG3MDCSNP200 - DIET IN ALTERNATIVE MEDICINE**  
**(2025 ADMISSION ONWARDS)**

**Duration: 1 hour 30 minutes**

**Maximum Marks: 50**

Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I) and Appreciation(Ap)

*Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.*

**Part A**

**One Word Questions**

**Answer all questions, Each question carries 1 mark**

1. What does AYUSH stand for? [K] / [CO1]
2. Name any one of the AYUSH systems. [K] / [CO1]
3. What is Agni in Ayurveda? [K] / [CO1]
4. Name the three Doshas in Ayurveda. [K] / [CO1]
5. What is Shadrasa? [K] / [CO2]
6. What is Pathya? [K] / [CO2]
7. Name one natural element used in naturopathy. [K] / [CO3]
8. Name one fermented food traditionally used in Kerala. [K] / [CO3]
9. Name one Kerala functional food. [K] / [CO4]
10. Name one medicinal rice variety used in Kerala. [K] / [CO4]

**[1 × 10 = 10 Marks]**

**Part B**

**Short Answer Questions**

**Answer any 10 questions, Each question carries 2 marks**

11. List the five AYUSH systems covered in the course. [K] / [CO1]
12. State two differences between Eastern and Western perspectives of health and disease. [U] / [CO1]

13. Mention two components of the Ayurvedic concept of Tridosha. [K] / [CO1]
14. What are Kashayam and Chukkukappi? Mention one traditional use of either. [U] / [CO1]
15. Define Shadrasa and mention any four tastes. [U] / [CO2]
16. Differentiate between Pathya and Apathya foods with one example. [U] / [CO2]
17. What are Ritucharya and Dinacharya? [U] / [CO2]
18. Mention two principles of naturopathy related to diet. [U] / [CO3]
19. State two examples of fermented foods in Kerala folk traditions. [K] / [CO3]
20. Mention any two Kerala functional foods and their commonly associated benefits. [U] / [CO4]
21. What are Sattvic, Rajasic and Tamasic foods? [U] / [CO4]
22. Mention two traditional dietary practices relevant to modern conditions such as diabetes or arthritis. [U] / [CO4]

**[2 × 10 = 20 Marks]**

### **Part C**

#### **Short Essay Questions**

**Answer any 5 questions, Each question carries 4 marks**

23. Explain the basic principles of AYUSH systems and discuss the concept of food as medicine in Indian traditions. [U] / [CO1]
24. Describe Agni, Tridosha, Dhatus and Malas and explain their relevance to dietary practices in Ayurveda. [An] / [CO1]
25. Explain the Ayurvedic classification of food based on Shadrasa, Guna, Virya and Vipaka. Add suitable examples. [An] / [CO2]
26. Discuss Pathya and Apathya foods and explain seasonal and daily dietary practices in Ayurveda. [An] / [CO2]
27. Explain naturopathy principles and discuss the role of fasting, raw food diets, water therapy and natural elements. [An] / [CO3]
28. Describe Kerala folk and functional food traditions with examples such as Pazhankanji, Moru, turmeric, ginger, garlic, moringa and amla. [An] / [CO3]
29. Discuss the relevance of traditional Kerala dietary practices, medicinal foods and yoga-compatible diets in contemporary holistic nutrition. [An] / [CO4]

**[4 × 5 = 20 Marks]**

**QPCODE:**

**Reg.No :** .....

**Name :** .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM  
MGU-BVOC (HONOURS) Regular Examination October 2026**

**Third Semester  
Multi Disciplinary Components(MDC) – MG3MDCFDM200 – HANDLOOM  
TEXTILES OF KERALA  
(2025 Admission Onwards)**

**Duration: 1.5 Hours**

**Maximum Marks: 50**

***Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I) and  
Appreciation(Ap)***

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**Part A**

Multiple Choice Questions

Answer all questions

Each question carries **1** marks

1. Which of the following is a major handloom weaving cluster in Kerala? [U] / :CO:1]
  - a) Balaramapuram
  - b) Bengaluru
  - c) Surat
  - d) Jaipur
  
2. What is a Handloom? [U] / [:CO:1]
  - a) A machine used for printing fabric
  - b) A manually operated loom used for weaving fabric
  - c) A Sewing Machine
  - d) A Knitting Machine

- |    |                                                                                                                                                                                                                                                                                                                                                                                                            |                 |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 3. | Which of the following is a raw material commonly used in Kerala Handloom weaving ?<br>a) Cotton<br>b) Plastic<br>c) Rubber<br>d) Printing                                                                                                                                                                                                                                                                 | [:U] / [:CO:2]  |
| 4. | Which of the following best describes the socio-economic importance of handloom clusters in kerala?<br><br>a) They mainly increase dependence on imported textiles<br>b) They provide employment and support the livelihoods of artisan communities<br>c) They replace traditional weaving skills with automated production<br>d) They reduce the participation of local communities in textile production | [:An] / [:CO:3] |
| 5. | Which of the following is a sustainable practice associated with handloom production?<br>a) Zero-waste practices<br>b) Excessive chemical usage<br>c) Increased plastic consumption<br>d) Excessive industrial waste                                                                                                                                                                                       | [E:] / [:CO:4]  |

**[1x5 = 5]**

### **Part B**

One or Two Sentence Questions

Answer all questions

Each question carries **2** marks

- |     |                                                                                         |               |
|-----|-----------------------------------------------------------------------------------------|---------------|
| 6.  | Define handloom and state any one important feature of handloom production.             | [U] / [CO:1]  |
| 7.  | Name any two major handloom weaving clusters in kerala.                                 | [U] / [CO:1]  |
| 8.  | What are warp and weft in weaving?                                                      | [U] / [CO:2]  |
| 9.  | How do artisan communities contribute to the reservation of Kerala's handloom heritage? | [An] / [CO:3] |
| 10. | Mention any two ways in which handloom can contribute to sustainable fashion.           | [E] / CO:4]   |

**[2x5 = 10]**

### **Part C**

Short Answers Questions

Answer all questions

Each question carries 5 marks

- |     |                                                                                                                                              |               |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 11. | Explain the cultural significance of handloom textiles in the traditional clothing of kerala.                                                | [U] / [CO:1]  |
| 12. | Describe the major raw materials and weaving techniques used in Kerala handloom production.                                                  | [U] / [CO:2]  |
| 13. | Analyze the role of handloom clusters, artisan communities and cooperative societies in supporting the socio-economic development of kerala. | [An] / [CO:3] |

**[5x3 = 15]**

**Part D**

Short Essay Questions

Answer all questions

Each question carries **10** marks

- |     |                                                                                                                                                                                                                    |              |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 14. | Explain the history and origin of handloom weaving in kerala.                                                                                                                                                      | [U] / [CO:1] |
| 15. | Evaluate the relevance of kerala handloom textiles in sustainable fashion. Discuss the major sustainable practices and suggest suitable strategies for promoting handloom products in the modern fashion industry. | [E] / [CO:4] |

**[10x2 = 20]**

Reg.No : .....

Name : .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**MGU-BVOC (HONOURS) MODEL EXAMINATION, 2026**

**THIRD SEMESTER**

**Multi-Disciplinary Course (MDC) – MG3MDCBFT200 – TRADITIONAL – HANDLOOM OF KERALA**

(2025 ADMISSION ONWARDS)

**Duration: 1 Hours 30 minutes**

**Maximum Marks: 50**

*Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Skill (S), Interest (I) and Appreciation (Ap)*

*Students should attempt at least one question from each Course Outcome to enhance their overall outcome attainability.*

**Part A**

**One Word / Very Short Answer Questions**

**Answer all questions. Each question carries 1 mark.**

1. What is meant by handloom weaving? [K] / [CO1]
2. Mention one factor that influenced the early development of handloom weaving in Kerala. [K] / [CO1]
3. Name one traditional handloom product associated with Balaramapuram. [K] / [CO2]
4. Which handloom hub of Kerala is noted for Jacquard techniques and blended designs? [K] / [CO2]
5. Name one decorative feature associated with Kuthampally handloom. [K] / [CO2]
6. Which Kerala handloom centre is known for home textiles and industrial weaving? [K] / [CO2]
7. Mention one role of women in the handloom sector. [K] / [CO3]
8. Name one social institution that supports handloom livelihoods. [K] / [CO3]
9. Mention one occasion or festival in Kerala where handloom is traditionally relevant. [K] / [CO4]
10. Name one area in which contemporary handloom promotion can be strengthened. [U] / [CO4]

**[1 × 10 = 10 Marks]**

## **Part B**

### **Short Answer Questions**

**Answer any 10 questions. Each question carries 2 marks.**

11. Briefly describe the origin and evolution of handloom weaving in Kerala. [U] / [CO1]
12. Explain how royal patronage and temples contributed to the development of Kerala handloom traditions. [U] / [CO1]
13. State the significance of early trade and global influence on Kerala handloom. [U] / [CO1]
14. Describe the traditional wear and Kasavu sarees associated with Balaramapuram. [U] / [CO2]
15. Explain the main features of Chendamangalam handloom, with reference to Jacquard techniques and blended designs. [U] / [CO2]
16. Write a short note on Kuthampally handloom, focusing on temple borders and decorative styles. [U] / [CO2]
17. Explain the distinctive features of Kannur handloom and its association with home textiles and industrial weaving. [U] / [CO2]
18. Discuss the role of cooperatives in supporting handloom workers and local livelihoods. [An] / [CO3]
19. Explain the role of women in the socio-economic development of Kerala's handloom sector. [An] / [CO3]
20. Describe how handloom is connected with festivals and rituals in Kerala. [U] / [CO4]
21. Explain the role of handloom in performing arts and temple rituals. [U] / [CO4]
22. Identify three contemporary challenges faced by Kerala handloom and suggest one suitable strategy for its preservation or promotion. [An] / [CO4]

**[2 × 10 = 20 Marks]**

## **Part C**

### **Short Essay Questions**

**Answer any 5 questions. Each question carries 4 marks.**

23. Trace the historical development of handloom weaving in Kerala and explain the influence of royal patronage, temples, early trade and global contacts on its growth. [An] / [CO1]
24. Compare the handloom traditions of Balaramapuram, Chendamangalam, Kuthampally and Kannur with reference to their distinctive products, weaving styles and decorative features. [An] / [CO2]
25. Explain the socio-economic importance of the Kerala handloom sector. Discuss the role of cooperatives, women and handloom-based livelihoods in local communities. [An] / [CO3]
26. Discuss the cultural significance of handloom in Kerala festivals, rituals, performing arts and temple traditions, giving suitable examples from the course content. [An] / [CO4]
27. Analyse the major contemporary challenges faced by Kerala's handloom industry and propose practical strategies for preservation, innovation and promotion. [An] / [CO4]
28. Explain how the unique regional identity of Kerala handloom can be preserved while promoting its products in contemporary markets. [E] / [CO4]
29. Prepare a comprehensive account of Kerala handloom as a combination of historical heritage, regional craftsmanship, socio-economic livelihood and cultural identity. [An] / [CO1]

**[4 × 5 = 20 Marks]**

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-B.VOC (HONOURS) REGULAR EXAMINATION OCTOBER 2026**  
**THIRD SEMESTER**  
**SKILL DEVELOPMENT COMPONENTS (SDC)- MG3SDCAAT201**  
**GOODS & SERVICES TAX**  
**(2025 ADMISSION ONWARDS)**

**Time :1.5 Hours**

**Max Marks: 50**

Remember (K), Understand(U), Apply (A), Analyze (An), Evaluate (E), Create (C), Skills (S), Interest (I) and Appreciation (Ap)

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**PART A     Answer any 5 questions carries 2 marks**

1. What are Goods and Services Tax? (U) (CO 1)
2. List out the names of various rates of GST. (U) (CO 2)
3. Define RNR. (U) (CO 1)
4. Which are the situations when inspection is conducted under GST?  
(U) (CO 5)
5. What is GSTIN? (U) (CO 6)
6. Under which section is Time of supply of goods and service provided? (U) (CO 3)
7. Differentiate a normal tax payer and ISD. (An) (CO 4) **(5\*2=10)**

**PART B     Answer any 5 questions carries 4marks**

8. Explain the Time of Supply in case of
  - a. Vouchers
  - b. RCM (U) (CO 3)

9. Explain ITC available under
    - a. Purchase of Capital Goods
    - b. RCM (U) (CO 4)
  10. Explain the following
    - a. Exempt supply and zero-rated supply
    - b. Compensation Cess (U) (CO 1)
  11. What are the contents to be included by an ISD in case of ISD invoice? (U) (CO 3)
  12. Explain the steps to generate E-invoicing. (U) (CO 6)
  13. What are the information to be furnished prior to commencement movement of goods and generation of E-Way Bill? (U) (CO 6)
  14. Differentiate TDS and TCS. (An) (CO 4)
- (5\*4=20)**

**PART C Answer any 2 questions carries 10marks**

15. Evaluate the role of the GST Council in the administration of GST in India. (U) (CO 1)
  16. Explain the Place of Supply rules for the following:
    - a. Services relating to immovable property
    - b. Passenger transportation services
    - c. Cultural, artistic, sporting, entertainment services (U) (CO 3)
  17. Discuss the major types of audits and the provisions related to Audit. (U) (CO 5)
  18. Explain the concept of Value of Supply. Discuss the major provisions related to
    - a. Value of supply of goods or services or both based on cost
    - b. Residual method
    - c. Through agent (U) (CO 3)
- (2\*10=20)**



**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**Third Semester B.Voc (Hons) Examination**

**B.Voc (H) Banking & Financial Services**

**Third Semester**

**MG3SDCBFS200- COST ACCOUNTING**

**Time: 2 Hours**

**Marks: 70**

**PART A**

**Very Short Answer Questions**

Answer any 10 questions, Each question carries 2 marks

1. Define Costing
2. Explain Opportunity Costing
3. Describe Centralized Purchasing
4. From the following information calculate prime cost  
Direct material-Rs 50,000  
Direct Labour- Rs 20,000  
Indirect Material- Rs 5,000  
Direct Expenses: Rs 2000
5. What do you mean by cost unit?
6. State two examples of office overheads
7. Explain works on cost and give two examples
8. Explain Inventory Turnover Ratio
9. What is overhead?
10. Distinguish between cost center and profit center
11. What is Bin Card
12. What is EOQ? ( 2\*10=20)

**PART B**

**Short Answer Questions**

Answer any 6 questions, Each question carries 5 marks

13. Explain the different causes for disagreement in profit
14. From the following of Product A calculate
  - a. Minimum Level
  - b. Maximum Level
  - c. Danger levelMaximum Usage: 300 units

Minimum Usage- 200 units  
Average usage – 225 Units  
Maximum Reorder Period- 6 months  
Minimum Reorder period- 2 months  
Reordering Quantity- 250 units

15. Distinguish between cost control and cost reduction
16. . Prepare the proforma of a detailed cost sheet with imaginary figures
17. From the following information ,prepare cost sheet

| Stock            | 1-4-2025 | 31-3-2026 |
|------------------|----------|-----------|
| Raw Material     | 8000     | 8800      |
| Work in progress | 1920     | 6400      |
| Finished Goods   | 6400     | 12840     |

|                          |              |
|--------------------------|--------------|
| Purchase of raw material | Rs 48,000    |
| Direct labour            | Rs40, 000    |
| Works on cost            | Rs16, 800    |
| Office overheads         | Rs 3200      |
| Selling overheads        | Rs 9600      |
| Sales                    | Rs 1, 20,000 |

18. Standard time allowed for a work is 48 hrs, A worker takes 40 hrs to complete the job. Time rate is 10/hr. Calculate the earnings of the worker under Rowan Plan

19. X Ltd has two production departments : Dept A and Dept B and three services department S1,S2 and S3 respectively. The following expenses incurred for the month of January 2025

Production Department

|   |           |
|---|-----------|
| A | Rs72,000  |
| B | Rs 48,000 |

Service department

|    |           |
|----|-----------|
| S1 | Rs 10,000 |
| S2 | Rs15,000  |
| S3 | Rs 12,000 |

The following are other information relating to the above departments

| Items | S1 | S2 | S3 | A | B |
|-------|----|----|----|---|---|
|-------|----|----|----|---|---|

|                          |     |      |      |     |     |
|--------------------------|-----|------|------|-----|-----|
| No of employee           | 5   | 10   | 5    | 10  | 25  |
| No of stores requisition | --- | ---- | 12   | 48  | 110 |
| Machine hours            | --- | ---- | ---- | 700 | 720 |

Show the overhead apportionment under Step Ladder Method

(5\*6=30)

## PART C

### Essay Questions

Answer any 2 questions, each question carries 10 marks

20. ABC Ltd has four departments: Dept A, Dept B, Dept C, and Dept D respectively. A,B and C are production department whereas D is Service Department. The actual expenses for the period is as follows:

|                               |           |
|-------------------------------|-----------|
| Rent                          | Rs12, 000 |
| Repairs                       | Rs 8,400  |
| Depreciation to plant         | Rs 5,600  |
| Lighting                      | Rs 1,400  |
| Supervision                   | Rs21, 000 |
| Fire Insurance                | Rs 6000   |
| Employer's contribution to PF | Rs 1,800  |
| Power                         | Rs 10,800 |

The following details are available in respect of four departments

|                         | Dept A | Dept B | Dept C | Dept D |
|-------------------------|--------|--------|--------|--------|
| Floor Area              | 900    | 600    | 540    | 300    |
| No:of workers           | 8      | 6      | 4      | 6      |
| Horse power of machines | 20     | 10     | 6      | _____  |

|                |          |          |          |          |
|----------------|----------|----------|----------|----------|
| Total wages    | 75000    | 60000    | 45000    | 30000    |
| Value of plant | 3,00,000 | 2,40,000 | 1,80,000 | 1,20,000 |
| Value of stock | 1,80,000 | 108000   | 72000    | ----     |
| Light points   | 10       | 8        | 6        | 4        |

Apportion the cost to various departments

21 From the following information, prepare the stores ledger under FIFO and LIFO method

July 1 Purchased 300 Units @ Rs 10

July 4 Issued 120 units

July 7 Purchased 220 units @Rs 11

July 18 Issued 200 units

July 29 Purchased 100 units @ Rs 12

22. Briefly explain the different classification of cost

(10\*2=20)

Reg.No: .....

Name: .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-B.VOC (HONOURS) REGULAR EXAMINATION**  
**THIRD SEMESTER**

**Skill Development Components (SDC)-MG3SDCAAT200-CORPORATE**  
**ACCOUNTING I**  
**(2025 Admission Onwards)**

**Duration: 2 hours**

**Maximum Marks: 70**

**Remember(R), Understand (U), Apply (A), Analyze (An), Evaluate (E), Create(C),  
Skills(S), Interest (I), and Appreciation (Ap)**

**PART A**

**VERY SHORT ANSWER**

Answer any 10 Questions.

Each question carries 2 marks

- |                                                    |                  |
|----------------------------------------------------|------------------|
| 1. What is forfeiture of shares?                   | (U/CO1)          |
| 2. What is capital reserve?                        | (U/CO1)          |
| 3. What is complete underwriting?                  | (U/CO6)          |
| 4. Define a company.                               | (R/CO1)          |
| 5. What is meant by provision?                     | (U/CO3)          |
| 6. What is cum interest/ purchase?                 | (U/CO4)          |
| 7. What is securities premium?                     | (R/CO4)          |
| 8. What is meant by current assets?                | (U/CO1)          |
| 9. Write the format of investment account.         | (A/CO4)          |
| 10. What is meant by loss of profit policy?        | (U/CO5)          |
| 11. What kind of risk covered under fire policies? | (U/CO5)          |
| 12. Define Investment.                             | (R/CO4)          |
|                                                    | <b>(10x2=20)</b> |

**PART B**

**SHORT ANSWER**

Answer any 5 Questions.

Each question carries 4 marks

- |                                                                                 |         |
|---------------------------------------------------------------------------------|---------|
| 13. Explain the difference between marked application and unmarked application. | (U/CO6) |
| 14. Explain the objectives of issuing bonus shares.                             | (U/CO1) |

15. What are the conditions for buy back of shares as per sec.68 (2) of the companies act, 2013? .  
(U/CO1)

16. A company issued **5,000 equity shares of ₹10 each at par**, payable:

- ₹3 on application
- ₹3 on allotment
- ₹4 on final call.

A shareholder holding **500 shares** failed to pay the allotment and final call money. His shares were forfeited. These shares were later reissued at **₹8 per share as fully paid**

Pass journal entries for forfeiture and reissue. (AP/CO1)

17. A company issued **10,000 equity shares of ₹10 each at a premium of ₹2 per share**. The amount was payable:

- ₹3 on application
- ₹5 on allotment (including premium)
- ₹4 on first and final call

All amounts were received. Pass the necessary journal entries. . (AP/CO1)

---

18. On 1 January 2026, a company purchased **1,000, 12% Government Bonds of ₹100 each at ₹105**. Interest is payable on **30 June and 31 December**.

On 1 August 2026, it purchased another **500 bonds at ₹102 cum-interest**.

On 1 November 2026, it sold **600 bonds at ₹108 ex-interest**.

Prepare the **Investment Account** for the year ended 31 December 2026. (AP/CO4)

19. A fire destroyed the stock of PQR Ltd. on 31 March 2026. The following information is available:

- Opening stock: ₹5,00,000
- Purchases: ₹18,00,000
- Sales up to date of fire: ₹20,00,000
- Gross profit: 25% of sales
- Salvaged stock: ₹1,50,000
- Insurance policy: ₹15,00,000

Calculate: Stock on the date of fire, Amount of stock lost Insurance claim, assuming the average clause applies. . (AP/CO5)

(4x5=20)

**PART C**  
**ESSAY**

Answer any 2 Questions.  
Each question carries 15 marks.

20. BC Ltd. suffered a fire on 31 December 2026. The following information is available:

- Opening stock: ₹15,00,000
- Purchases up to date of fire: ₹40,00,000
- Sales up to date of fire: ₹50,00,000
- Gross profit: 20% of sales
- Salvaged stock: ₹3,00,000
- Insurance policy: ₹45,00,000
- Average clause applies
- Insurance company admitted the claim after deducting ₹50,000 for an uninsured item.

Prepare the **Memorandum Trading Account**, calculate the **stock lost**, determine the **insurance claim**, and pass the necessary journal entries. (AP/CO5)

21. Write a short note on Memorandum Trading Account and what are the sources for preparing memorandum trading account. . (AP/CO5)

22 On 1 April 2025, an investor purchased ₹4, 00,000, 10% debentures at ₹96 cum-interest.

The following transactions took place:

- **1 July 2025:** Purchased ₹2, 00,000 at ₹98 ex-interest.
- **1 October 2025:** Sold ₹3, 00,000 at ₹100 cum-interest.
- **1 January 2026:** Purchased ₹1, 00,000 at ₹97 cum-interest.
- Brokerage on all purchases and sales is **1%**.
- Interest is payable on **30 June and 31 December**.

Prepare the **Investment Account** for the year ended 31 March 2026, showing **interest received and profit/loss on sale**. . (AP/CO4)

23. The following balances are extracted from the books of XYZ Ltd. on 31 March 2026:

- Equity Share Capital — ₹15,00,000
- Revenue from Operations — ₹30,00,000
- Purchases — ₹18,00,000
- Opening Stock — ₹4,00,000
- Salaries — ₹3,00,000
- Office Expenses — ₹1,00,000
- Selling Expenses — ₹80,000
- Plant — ₹10,00,000
- Furniture — ₹2,00,000
- Trade Receivables — ₹5,00,000
- Trade Payables — ₹3,00,000
- Cash — ₹2,00,000
- General Reserve — ₹2,00,000

**Adjustments:**

- Closing stock ₹5, 00,000.
- Salaries outstanding ₹30,000.
- Depreciation on Plant 10%.
- Depreciation on Furniture 5%.
- Provision for doubtful debts ₹20,000.
- Interest on loan outstanding ₹25,000.

Prepare the **Statement of Profit and Loss and Balance Sheet** (AP/CO3)

. (2x15=30)



**MAHATMA GANDHI UNIVERSITY KOTTAYAM**

**MGU B.Voc (Honours) Regular Examination**

**THIRD SEMESTER**

**MPC-MG3MPCBFC200-CAPITAL MARKET**

**Duration : 1.5 hr**

**Maximum Mark :50**

**PART A – VERY SHORT ANSWER QUESTIONS**

**Answer any 10 questions.**

**(10 × 1 = 10 Marks)**

1. What is the secondary market?
2. What is liquidity?
3. What is price discovery?
4. Which institution regulates the securities market in India?
5. What is a stock exchange?
6. Name any two stock exchanges in India.
7. Expand BOLT.
8. Expand NEAT.
9. What is Sensex?
10. What is Nifty 50?
11. What is a depository?
12. Expand NSDL.

**PART B – SHORT ANSWER QUESTIONS**

**Answer any 4 questions.**

**(4 × 5 = 20 Marks)**

13. Explain the functions of the secondary market.
14. Discuss the features of the Bombay Stock Exchange (BSE).
15. Explain the features of the National Stock Exchange (NSE).

16. Explain the depository system in India.
17. Differentiate between NSDL and CDSL.
18. Explain the importance of stock market indices.

### **PART C – ESSAY QUESTIONS**

**Answer any 2 questions.**

**(2 × 10 = 20 Marks)**

19. Discuss the major stock exchanges in India.
20. Explain the depository system and the process of dematerialization.
21. Discuss the concept, functions, and importance of stock market indices.