

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

MGU-UGP (HONOURS)

THIRD SEMESTER EXAMINATION

(2024 ADMISSION ONWARDS)

MG3DSCCND200 – CLINICAL NUTRITION - I

Duration: 2 hrs

Maximum Marks: 50

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

Each question is tagged with the appropriate Bloom's Revised Taxonomy level (Remembering, Understanding, Applying, Analyzing, Evaluating, and Creating.) and the relevant course outcome (CO) number.

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

Part A

Multiple Choice Questions

Answer **All** Questions

Each question carries **1** mark

1. Formulas given to patients in partially digested form [U] [1]
a) Disease specific formula b) General formula c) Hydrolyzed formula d) Standard formula
2. Bacteria which causes typhoid [U][2]
a) Salmonella Schottumullerib) Mycobacterium c) Clostridium d) Salmonella typhi
3. is an administration problem in enteral nutrition. [U] [1]
a) Diarrhoea b) Aspiration c) Tube displacement d) Hyponatremia
4. Kaposi's sarcoma is a complication of [U] [2]
a) Typhoid b) Tuberculosis c) AIDS d) Malaria
5. BMI between 17 – 18.49 is classified as [U] [3]
a) Mild underweight b) Moderate underweight c) Severe underweight d) Undernutrition
6. Type I Diabetes is also known as..... [U] [3]
a) IDDM b) NIDDM c) LADA d) MODY

[1 X 6 = 6 marks]

Part B

Short Answer Type Questions

Answer 2 Questions

Each question carries **2** marks

7. Discuss the factors to be considered in the selection of enteral feed [U] [1]
8. Describe the signs and symptoms of typhoid. [U] [2]
9. Classify obesity [U] [3]
10. Differentiate between glycemic index and glycemic load [U] [3]

[2 X 2 = 4 marks]

Part C

Short Essay Type Questions

Answer 4 Questions

Each question carries **5** marks

11. Differentiate between nasogastric and nasoduodenal feeding. [U] [1]
12. Explain the nutritional problems in AIDS patients. [U] [2]
13. Explain bolus and intermittent feeding method. [U] [1]
14. Explain the dietary management in influenza.[U] [2]
15. Explain the principles of diet and dietary management of underweight. [U] [3]
16. Describe the aetiology of diabetes[U] [3]

[5 X 4 =20 marks]

Part D

Essay Type Questions

Answer 2 Questions

Each question carries **10** marks

17. Describe the different enteral access [U] [1]
18. Discuss the causes, symptoms and dietary management in tuberculosis. [U] [2]
19. Explain the diagnosis, treatment and dietary management in diabetes. [U] [3]
20. Explain the management of obesity. [U] [3]

[10 X 2 =20 marks]

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

MGU-UGP (HONOURS)

THIRD SEMESTER EXAMINATION

(2024 ADMISSION ONWARDS)

MG3DSCCND201 – LIFE CYCLE AND WELLNESS NUTRITION-I

Duration: 2hrs

Maximum Marks: 50

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Part A

Multiple Choice Questions

Answer **All** Questions

Each question carries **1** mark

1. Development proceeds from head to toe. [K] [3]
a) Cephalocaudal b) Proximodistal c) Body development d) None of these
2. The disease of displaced child. [K] [3]
a) Marasmus b) Kwashiorkor c) Marasmic Kwashiorkor d) None of these
3. The processing method used to enhance the nutritive value of foods is..... [U] [1]
a) Fermentation b) Milling c) Marination d) Simmering
4. ARFID stands for [K] [3]
a) Avoidant/Restrictive Food Intake Disease b) Avoidant/Restrictive Food Intake Disorder
c) Avoidance of Food Intake Disorder d) Avoidance of Food Intake Disease
5. The first immunisation to the infant [U] [2]
a) Colostrum b) Hind milk c) Fore milk d) Transition milk
6. Solid food added to an infant's diet is called [K] [2]

- a) Wemian b)Complementary feed c) Supplementary feed d) beikost

[1 X 6 = 6]

Part B

Short Answer Type Questions

Answer **2** Questions

Each question carries **2**marks

7. List any 4 principles of menu planning.[K] [1]
8. Differentiate Kwashiorkor and Marasmus.[U] [3]
9. Explain Low Birth Weight Babies [U] [2]
10. Describe the benefits of breakfast for school children [U] [3]

[2 X 2 = 4]

Part C

Short Essay Type Questions

Answer **4** Questions

Each question carries **5** marks

11. Comment on the causes and diagnosis of Iron Deficiency anaemia.[K] [3]
12. Explain any 10 points to be considered in diet planning.[U] [1]
13. Describe the clinical signs and symptoms of kwashiorkor.[U] [3]
14. Discuss the points to be considered in planning a packed lunch [U] [3]
15. Explain the problems associated with impaired weaning [U] [2]
16. Describe types of Supplementary foods [K] [2]

[5 X 4 =20]

Part D

Essay Type Questions

Answer **2** Questions

Each question carries **10** marks

17. Explain the principles of diet planning.[K] [1]
18. Comment on VAD.[U] [3]
19. Explain the nutritional requirements of school children [U] [3]
20. Describe the advantages of Breast feeding [K] [2][10 X 2 =20]

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

MGU-UGP (HONOURS)

THIRD SEMESTER EXAMINATION

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MG3DSCCND202 – DIET AND HEALTH

Duration: 2 hrs

Maximum Marks: 50

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

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Part A

Multiple Choice Questions

Answer **All** Questions

Each question carries **1** mark

1. Select the correct expansion of LADA. [K][1]
 - a) Latent Autoimmune Diabetes of Adult
 - b) Latest Auto Disease in Adult
 - c) Least Adult Diet Autoimmune
 - d) Latent Autoimmune Disease in Adult
2. Presence of excess glucose in the urine known as..... [U][1]
 - a) Ketonuria
 - b) Hypoglycemia
 - c) Glycosuria
 - d) Nocturia
3. Which hormone plays a key role in regulating blood glucose level? [K][1]
 - a) Insulin
 - b) Glucagon
 - c) Cortisol
 - d) Both a and b
4. Excess sodium intake can lead to: [U][2]
 - a) Hypotension
 - b) Hypertension
 - c) Diabetes
 - d) Osteoporosis

5. NASH refers to: [U][2]
 - a) Non - Alcoholic Steatohepatitis
 - b) Non - Anemic Serum Hypertension
 - c) Nutritional Atherosclerotic Syndrome in Hepatitis
 - d) None
6. Select a common symptom of nephritis[R][3]
 - a) Proteinuria
 - b) Hyperglycemia
 - c) Constipation
 - d) Goiter **[1 X 6 = 6 marks]**

Part B

Short answer questions

Answer **any 2** questions

Each question carries 2 marks

7. Explain the role of protein in nephrotic syndrome? [U][3]
8. Describe the symptoms of myocardial infarction? [K][2]
9. Discuss the health risks of being underweight? [U][1]
10. Explain the complications of obesity? [K][1] **[2 X 2 = 4 marks]**

Part C

Short Essay questions

Answer **any 4** questions

Each question carries 5 marks

11. Discuss the complications of diabetes mellitus. [K][1]
12. Explain the dietary management of hypertension. [K][2]
13. Elaborate on fatty liver and its management. [U][3]
14. Explain cirrhosis. [U][3]
15. Explain the causes and symptoms of acute renal failure. [K] [U]
16. Classify the types and assessment methods of obesity. [U][1] **[5 X 4 = 20 marks]**

D

Essay questions

Answer **any 2** questions

Each question carries 10 marks.

17. Identify the causes, symptoms and dietary management of nephritis. [K][3]
18. List the types, symptoms, risk factors and dietary management of cardiovascular disease. [U][2]
19. Explain the weight management strategies for obesity and underweight conditions. [K][1]
20. Explain the symptoms, diagnosis and dietary management of diabetes mellitus. [U][1] **[10 X 2 = 20 marks]**

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

MGU-UGP (HONOURS)

THIRD SEMESTER EXAMINATION

(2024 ADMISSION ONWARDS)

MG3DSCNBC200– NUTRITIONAL BIOCHEMISTRY

Duration: 2 hrs

Maximum Marks: 50

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

Each question is tagged with the appropriate Bloom's Revised Taxonomy level (Remembering, Understanding, Applying, Analyzing, Evaluating, and Creating.) and the relevant course outcome (CO) number.

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Part A

Multiple Choice Questions

Answer **All** Questions

Each question carries **1** mark

1. Name the enzyme involved in the conversion of glucose to glucose-6-phosphate [U] [1]
a) Kinase b) Isomerase c) Mutase d) Enolase
2. Cori cycle is also called.....[U][1]
a) TCA cycle b) Lactic Acid Cycle c) Tricarboxylic Acid d) Pentose Phosphate Pathway
3. Name the protein that accepts glucose from UDP glucose. [U] [2]
a) Glycogen synthase b) UDP Phosphorylase c) Glycogenin d) GALT
4. Name the cycle involved in eliminating toxic ammonia from the body.[K] [2]
a) Transamination b) Deamination c) Urea Cycle d) Transdeamination
5. Name the organelles where β -oxidation of fatty acids takes place.[K] [3]
a) Cytoplasm b) mitochondrion c) Nucleus d) Endoplasmic Reticulum
6. Name the enzyme is responsible for triglyceride breakdown in adipose tissue [K] [3]
a) Lipases b) Thiokinases c) dehydrogenase d) Thiolase

[1 X 6 = 6 marks]

Part B

Short Answer Type Questions

Answer **2** Questions

Each question carries **2** marks

7. Explain Cori Cycle [U] [1]
8. Describe Fructolysis. [U] [3]
9. Explain the term ketogenesis.[U] [3]
- 10 Classify the different types of adipose tissue? [K] [3]

[2 X 2 = 4 marks]

Part C

Short Essay Type Questions

Answer **4** Questions

Each question carries **5** marks

11. Explain Citric acid cycle. [U] [1]
12. Discuss the energetics of breakdown of a single glucose molecule. [U] [1]
13. Describe urea cycle. [U] [2]
14. Differentiate between Transamination and Deamination [U] [2]
15. Explain synthesis of triacylglycerol [U] [3]
16. Differentiate between Betaoxidation and Synthesis of Fatty acid [R] [3]

[5 X 4 =20 marks]

Part D

Essay Type Questions

Answer **2** Questions

Each question carries **10** marks

17. Explain Gluconeogenesis [U] [1]
18. Describe the various reactions of amino acid metabolism.[U] [2]
19. Explain the metabolism of fattyacid[U] [3]
20. Explain the metabolism of Cholesterol[U] [3]

[10 X 2 =20 marks]

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MGU-UGP (HONOURS)

THIRD SEMESTER EXAMINATION

(2024 ADMISSION ONWARDS)

MG3DSECND200 – ADVANCED NUTRITION

Duration: 2 hrs

Maximum Marks: 70

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

Each question is tagged with the appropriate Bloom's Revised Taxonomy level (Remembering, Understanding, Applying, Analyzing, Evaluating, and Creating.) and the relevant course outcome (CO) number.

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

Part A

Objective Questions

Answer **All** Questions

Each question carries **1** mark

1. PAL between 2 – 2.49 is categorized as activity [U] [1]
2. Hormone which influences the kidney to reabsorb water is [U][1]
3. The enzyme which hydrolyses starch in mouth. [U] [2]
4. Cretinism is due to the deficiency of [U] [4]
5. Iron toxicity leads to[U] [4]
6. Osteomalacia is due to the deficiency of[U] [3]
7. Expand SDA [U][2]
8. The enzyme which activates pepsinogen in protein digestion is[U][2]
9. Name the deficiency caused due to niacin.....[U] [3]
10. Spina bifida is due to the deficiency of [U] [3]

[1 X 10 = 10 marks]

Part B

Short Answer Type Questions

Answer any **5** Questions

Each question carries **2** marks

11. Describe the factors influencing the distribution of water. [U] [1]
12. Differentiate between net protein utilization and net protein ratio. [U] [2]
13. Discuss pellagra [U] [3]
14. Discuss osteoporosis [U] [4]
15. Explain PAL [U] [2]
16. Differentiate between dental fluorosis and skeletal fluorosis. [U] [4]
17. Discuss Ariboflavinosis [U] [3]

[2 X 5 = 10 marks]

Part C

Short Essay Type Questions

Answer **6** Questions

Each question carries **5** marks

18. Discuss the functioning of Benedict Roth Respirometer. [U] [1]
19. Discuss the digestion, absorption and transport of lipids. [U] [2]
20. Describe the deficiency disorders of vitamin A. [U] [3]
21. Explain the functions of water. [U] [1]
22. Explain the digestion, absorption and transport of riboflavin. [U] [3]
23. Explain goitre. [U] [4]
24. Discuss the digestion, absorption and transport of protein. [U] [2]
25. Discuss the digestion, absorption and transport of selenium. [U] [4]

[5 X 6 = 30 marks]

Part D

Essay Type Questions

Answer **2** Questions

Each question carries **10** marks

26. Describe the factors affecting BMR. [U] [1]
27. Discuss the role of fibre in preventing diseases. [U] [2]
28. Discuss thiamine deficiency diseases. [U] [3]
29. Explain the factors affecting the absorption of iron. [U] [4]

[10 X 2 = 20 marks]

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

MGU-UGP (HONOURS)

THIRD SEMESTER EXAMINATION

(2024 ADMISSION ONWARDS)

MG3VACCND200 – HOLISTIC NUTRITION

Duration: 2 hrs

Maximum Marks: 50

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

Each question is tagged with the appropriate Bloom's Revised Taxonomy level (Remembering, Understanding, Applying, Analyzing, Evaluating, and Creating.) and the relevant course outcome (CO) number.

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

Part A

Multiple Choice Questions

Answer **All** Questions

Each question carries **1** mark

1. Biologically active compounds of plant origin are known as..... [U][3]
a) Phytochemicals b) Antioxidants c) Prebiotics d) Probiotics
2. Holistic nutrition focuses on..... [U][1]
a) Only food b) Weight loss c) Overall well being d) Only vitamins and minerals
3. Which hormone is mainly released during deep sleep to help in tissue repair and growth [K][2]
a) Insulin b) Growth Hormone c) Cortisol d) Leptin
4. Carotenoids and terpenoids belong to the class [U][4]
a) Prebiotics b) Phytochemicals c) Isoprenoids d) Probiotics
5. Fibre which dissolves in water, is readily fermented in the colon into gases and short chain fatty acids are called [K] [3]
a) Insoluble Dietary Fibre b) Fermentable Fibre c) Bulking Fibre d) Soluble Dietary Fibre
6. is a universal antioxidant, used for the treatment of Diabetic neuropathy [U] [4]
a) Carotenoids b) Lipoic acid c) Curcumin d) Iso flavones

[1 X 6 = 6 marks]

Part B

Short Answer Type Questions

Answer **2** Questions

Each question carries **2** marks

7. Explain the term Holistic Nutrition [U] [1]
8. Describe the importance of sleep and rest. [U] [2]
9. Describe the plant sources of Soluble Fibre [K] [3]
10. Differentiate between Prebiotics and Probiotics [U] [4]

[2 X 2 = 4 marks]

Part C

Short Essay Type Questions

Answer **4** Questions

Each question carries **5** marks

11. Explain the importance of fluid intake. [U] [2]
12. Discuss the health benefits of probiotics. [U] [3]
13. Describe the importance and role of holistic nutrition. [U] [1]
14. Differentiate between Soluble and Insoluble Dietary Fibre [U] [3]
15. Explain the significance of Nutraceuticals [U] [4]
16. Describe the importance of nutraceuticals in the management of Diabetes [K] [4]

[5 X 4 =20 marks]

Part D

Essay Type Questions

Answer **2** Questions

Each question carries **10** marks

17. Explain the principles of holistic nutrition. [U] [1]
18. Explain the types of prebiotics .[U] [3]
19. Explain the relevance of nutraceuticals in the management of CVD [U] [4]
20. Explain the importance of physical activity.[U] [2]

[10 X 2 =20 marks]