

**First Semester CBCS Examination  
B.Sc CLINICAL NUTRITION AND DIETETICS**

**CN1CRT01 –BASIC NUTRITION**

Time: 3Hrs

Maximum Marks: 80

**PART A**

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

1. Define health.
2. Define BMR
3. Differentiate between monosaccharide and disaccharides.
4. What are essential amino acids? List the essential amino acids.
5. What is water intoxication?
6. Which are the symptoms of good health?
7. Differentiate between soluble and insoluble fibre.
8. What is PAL?
9. Classify lipids.
10. What is hypernatremia?
11. What is REE?
12. What is My Plate?

**(10 x 2 = 20 marks)**

**PART B**

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

13. Explain the components of dietary fibre.
14. Which are the basic four food groups?
15. Explain the role of fat in the body.
16. Briefly explain the mechanism of thirst.
17. Which are the factors affecting PAL?
18. Explain the sources, requirement and functions of potassium in body.
19. Explain the digestion of protein.
20. Comment on the distribution of water in body.
21. Explain the digestion of lipids.

**(6 x 5 = 30 marks)**

**PART C**

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

22. What is malnutrition? Explain the different forms of malnutrition.
23. What is BMR? Which are the factors that affect BMR?
24. Explain the functions, digestion, absorption and transport of carbohydrates?
25. Explain the importance of dietary fibre in our diet.

**(2 x 15 =30 marks)**

**First Semester CBCS Examination**  
**B.Sc CLINICAL NUTRITION AND DIETETICS**  
**CN1CRT02 –BASIC DIETETICS**

**Time: 3Hrs**

**Maximum Marks: 80**

**PART A**

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

1. What are the purposes of diet therapy?
2. What is meant by Refeeding syndrome?
3. What is meant by influenza? Write the symptoms of influenza.
4. What is meant by binge eating disorder?
5. What is meant by food sensitivity?
6. List out the conditions in which tube feeding is used.
7. Which are the symptoms of allergy?
8. Write the metabolic changes in fever.
9. What is meant by diet counseling?
10. Discuss about causes and types of fever.
11. Describe the four stages of AIDS.
12. What is meant by soft diet?

**(10 x 2 = 20 marks)**

**PART B**

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

13. Briefly explain the psychology of feeding the patient.
14. Explain the etiology of underweight.
15. Explain tube feeding.
16. Which are the different measures used in the assessment of obesity?
17. Discuss about the nutritional and food requirements in underweight.
18. Write about the nutritional requirements in tuberculosis.
19. Explain TPN.
20. Write about the complications of obesity.
21. Explain the uses of computers by dietitian.

**(6 x 5 = 30 marks)**

**PART C**

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

22. Explain the routine hospital diets.
23. Explain AIDS under the following heads:  
a) Manifestations b) Nutritional Problems c) Nutritional Requirements
24. Explain obesity under the following heads:  
a) Etiology b) Types c) Dietary Management.
25. Explain diagnosis and treatment of food allergy.

**(2 x 15 =30 marks)**

**First Semester CBCS Examination**  
**B.Sc CLINICAL NUTRITION AND DIETETICS**  
**CN1CRT03 – FAMILY MEAL MANAGEMENT - I**

Time: 3 Hrs

Maximum Marks: 80

**PART A**

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

1. What is meant by balanced diet?
2. What is transition milk?
3. What is meant by LBW babies?
4. What is meant by pre-term baby?
5. What is Beikost?
6. Briefly explain the role of placenta in pregnancy?
7. Why do energy needs increase during pregnancy?
8. Hormonal control of calcium metabolism during pregnancy?
9. What is meant by spina bifida?
10. Write down relationship between maternal and foetal nutrition?
11. What is meant by Lactogogues?
12. Write down the hormones which control lactation? **(10x 2 = 20 marks)**

**PART B**

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

13. What are the factors affecting the volume and composition of breast milk?
14. Explain the process of stimulation of milk production?
15. What are the general dietary problems during pregnancy?
16. Explain the physiological changes of pregnancy?
17. What is four food group system?
18. What are the immunological benefits of breast milk?
19. Nutritional requirements of a pre-term baby?
20. What are the points to be considered in introducing weaning foods?
21. Comment on DBM and EBM. **(6 x 5 = 30 marks)**

**PART C**

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

22. Explain nutritional requirements of a pregnant woman? Write any 5 suggested Recipes and its reason?
23. Explain the nutritional and food requirements of an infant.
24. Explain the advantages of breast feeding and disadvantages of bottle feeding.
25. What is RDA? Write down their uses and limitations. What are the important points to be considered while planning menu? **(2 x 15 = 30 marks)**

**First Semester CBCS Examination**  
**B.Sc CLINICAL NUTRITION AND DIETETICS**  
**CN1CMT01 –FUNDAMENTALS OF BIOCHEMISTRY**

**Time: 3Hrs**

**Maximum Marks: 80**

**PART A**

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

1. Differentiate between acidosis and alkalosis?
2. Write about genetic code?
3. Differentiate between molarity and molality?
4. Define oxidative phosphorylation?
5. What are prostaglandins? Comment on its classification?
6. What are enzymes? Give its classification?
7. Differentiate between endocytosis and exocytosis?
8. Comment on active transport?
9. Explain the role of mitochondria in ETC?
10. Differentiate between passive diffusion and facilitated diffusion?
11. Comment on ping –pong mechanism?
12. Explain structural difference between DNA and RNA? **(10 x 2 = 20 marks)**

**PART B**

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

13. Explain the mechanism of transport of macromolecules?
14. Explain the classification of high energy compounds?
15. Explain the inhibitors involved in oxidative phosphorylation?
16. Give the classification and composition of nucleic acids?
17. Define prostaglandins? Explain its biosynthesis?
18. Explain the characteristics of genetic code?
19. Explain the types of RNA?
20. Explain the uses of enzymes?
21. Comment on diagnostic value of serum enzymes. **(6 x 5 = 30 marks)**

**PART C**

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

22. Explain electron transport chain?
23. Explain protein synthesis?
24. Write on factors affecting enzyme activity?
25. Write on transport of molecules across cell membrane? **(2 x 15=30 marks)**

**First Semester CBCS Examination**  
**B. Sc CLINICAL NUTRITION AND DIETETICS**  
**CN1CMT02 – HUMAN ANATOMY AND PHYSIOLOGY-I**

Time: 3 Hrs

Maximum Marks: 80

**PART A**

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

1. What is GFR?
2. Functions of Pancreas.
3. What is homeostasis?
4. What are cell junctions?
5. What is xerostomia?
6. What is Cell?
7. Write a note on gall bladder.
8. Parotid Gland.
9. Cholecystokinin.
10. Vermiform appendix.
11. Different types of tissues.
12. Dentition.

**(10 x 2 = 20 marks)**

**PART B**

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

13. Explain the functions of liver.
14. Comment on the movements in G.I system.
15. Write a note on the abnormal constituents in urine.
16. Explain the hunger and thirst mechanism.
17. Explain the endocrine functions of kidney.
18. Explain role of different organ systems in homeostasis.
19. Explain the structure of mitochondria as a cell organelle.
20. Explain the structure of intestinal villi.
21. What are the factors affecting urine formation and urine volume.

**(6 x 5= 30 marks)**

**PART C**

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

22. Explain the mechanism of urine formation.
23. Describe the various digestive glands and its role in digestion.
24. Explain the regulation of acid base balance in the body.
25. Explain the mechanism of digestion in the body.

**(2 x 15 =30 marks)**