



**Avinashilingam Institute for Home Science and Higher Education for Women**  
**(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)**  
**Re-accredited with A++ Grade by NAAC. Recognised by UGC Under Section 12B**  
**Coimbatore - 641 043, Tamil Nadu, India**

**Continuous Internal Assessment -October, 2024**

**V Semester**

**Class:III B.Sc**

**Time: 2 Hours**

**Branch : Food Service Management and Dietetics**

**Max. Marks: 60**

**21BFDC16 Nutritional Biochemistry**

**Course Outcomes:**

CO1 : Understand the basic concepts of biochemistry

CO2 : Gain knowledge on metabolism of carbohydrate protein and lipids

CO3 : Acquire knowledge on functions and mode of action of different hormones.

CO4 : Relate metabolism of different nutrients with dietary intake.

CO5 : Suggest preventive measures to overcome metabolic abnormalities.

**Part A**

**6 x 1 =6**

**Choose the Correct Answer**

1. The major nitrogenous waste product excreted is CO3 K3  
a) Creatine b) Creatinine c) Urea d) Protein
2. Positive nitrogen balance is experienced during CO5 K2  
a) Fever b) Growth c) Infection d) GI disorders
3. The increased concentration of ketone bodies in blood is called CO2 K2  
a) ketonuria b) ketonaemia c) ketosis d) ketogenesis
4. Lecithin is an example of CO4 K2  
a. Glycolipids b. Phospholipids c. Sulpholipids d. Lipoproteins
5. The agent which interferes with the formation of thyroxine is CO5 K3  
a. Iron b. Iodine c. Magnesium d. Phosphorus
6. Corticoids is secreted by the CO1 K1  
a. Adrenal Medulla b. Adrenal cortex c. Thyroid gland d. Pancreas

**Part B**

**3 x 6 = 18**

**Answer ALL questions**

**Each answer should not exceed 400 words or two pages**

- 7.a Explain gene repair due to x ray damage. CO2 K4  
or
- 7.b What factors promote the formation of ketone bodies. CO2 K3
- 8.a Enumerate the hormones of the anterior pituitary. CO5 K3  
or
- 8.b Explain the enterohepatic circulation of bile. CO1 K2
- 9.a Brief on the functions of glucagon hormone. CO3 K3  
or
- 9.b Explain the endogenic synthesis of cholesterol. CO4 K2

**Part C**

**3 x 12 = 36**

**Answer ALL questions**

**Each answer should not exceed 800 words or four pages**

- 10.a Detail on the different types of compound lipids. CO2K2  
or
- 10.b Explain the beta oxidation of fatty acids. CO2K3
- 11.a Discuss the metabolic effects of thyroxine. CO3K2  
or
- 11.b Elaborate on steps in protein synthesis. CO3 K2
- 12.a Detail on role of female reproductive hormones. CO3 K3  
or
- 12.b Write on the diseases associated with adrenocortical function. CO5 K3

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