TM252111L

Reg. No :.....

Name :.....

P.G. Diploma (C.S.S) EXAMINATION, MARCH 2025

2015 ADMISSIONS SUPPLEMENTARY

SEMESTER II - CORE COURSE CLINICAL NUTRITION & DIETETICS

CN2C09TPGD - Nutritional Biochemistry

Time : 3 Hours **Maximum Marks : 75**

Part A

I. Answer any Five questions. Each question carries 3 marks **(5x3=15)**

1. Define allosteric enzymes and antienzymes.
2. Briefly write the metabolism of fructose.
3. How is triglyceride synthesised in the body?
4. Write the functions and catabolism of serine.
5. What is ATP? Write its function.
6. State the functions of tRNA.
7. Define xenobiotics? How can they enter into our body?

Part B

II. Answer any Six questions. Each question carries 5 marks **(6x5=30)**

8. Explain the mechanism of enzyme action and the factors affecting the same.
9. Write about the digestion and transport of carbohydrate.
10. Write about the formation of bile acid and its functions.
11. What is transamiation? Write its significance and the action of SGOT and SGPT.
12. Differentiate exergonic and endergonic reactions. Give examples.
13. Write the structure of a nucleoprotein.
14. What are different types into which nutrient drug relationship categorized? Give example.
15. What is drug nutrient interaction? Explain.
16. What is xenobiotics? Write the phases involved in detoxification.

Part C

III. Answer any Two questions. Each question carries 15 marks **(2x15=30)**

17. Kreb's cycle is the ultimate pathway of all three macronutrients. Explain.
18. Explain endogenous production of cholesterol.
19. What is transmethylation? Explain the functions of methionine and glycine.
20. What is nucleoprotein? Write structural and functional differences of DNA and RNA.