

Roll No.

Total No. of Pages : 02

Total No. of Questions : 18

Pharm. D (Sem.-1)
MEDICINAL BIOCHEMISTRY
Subject Code : 1.3
M.Code : 26506

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTION TO CANDIDATES :

1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carries TWO marks each. Attempt any SIX
2. SECTION-B contains EIGHT questions (Short Essay Type). questions. Each question carries FIVE marks.
3. SECTION-C contains THREE questions (Long Essay Type). Attempt any TWO questions. Each question carries FIFTEEN marks.

SECTION-A

- Q1. Draw structure of ATP and specify high energy bond present in it. 2
- Q2. Draw structure of one coenzyme derived from vitamin B6. Give its one biochemical function. 2
- Q3. What is biochemical cause of glycogen storage disease? 2
- Q4. What is atherosclerosis? 2
- Q5. What is oxidative deamination? 2
- Q6. Give two examples of isoenzyme used for the diagnosis of disease. 2
- Q7. What is transcription? 2

SECTION-B

- Q8. Name various transport mechanisms across the cell membrane. Give detail account of one. 5
- Q9. What is diabetes mellitus? Explain hormonal regulation of blood glucose. 5

Q10. Describe various factors affecting enzyme activity.	5
Q11. Describe various steps of β -oxidation.	5
Q12. Explain role of NAD/NADH and NADP/NADPH coenzyme system in biological oxidation by one suitable example of each.	5
Q13. Describe the production of bile pigments.	5
Q14. Describe important kidney function and tests along with their diagnostic applicability.	5
Q15. What is blood lipid profiling? Describe its biochemical significance.	5

SECTION-C

Q16. Describe reactions of citric acid cycle. Comments on its anaplorectic nature.	15
Q17. a. Describe semiconservative model of DNA replication.	7
b. Give outline for de novo synthesis of pyrimidine nucleotide.	8
Q18. Describe various steps involved in biosynthesis of cholesterol.	15

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.