

Roll No. 

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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.
2. SECTION-B contains EIGHT questions (Short Essay Type). Attempt any SIX 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 **any 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  $\beta$ -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.**