

**First Year Pharm. D (SUPPLEMENTARY) : SUMMER - 2019**  
**SUBJECT: MEDICINAL BIOCHEMISTRY**

Day: Wednesday  
Date: 03/07/2019

Time: 10.00 A.M. TO 01.00 P.M.  
Max. Marks: 70

**S-2019-4529**

**N.B:**

- 1) **Q. No. 1 and Q. No. 5 are COMPULSORY.** And out of remaining solve any **TWO** questions from each section.
- 2) Answer to both sections should be **SEPARATE** answer book.
- 3) Figures to the right indicate **FULL** marks.

**SECTION - I**

- Q.1 A)** Answer any **FOUR** of the following (08)
- a) What is enzyme inhibition?
  - b) Define Km for enzyme and state its importance.
  - c) What is DNA melting?
  - d) What are initiating codons?
  - e) What is lactose intolerance?
- B)** How maltose and sucrose enter in glycolysis? (03)
- Q.2** What is fluid balance? State different types of fluids. (12)
- Q.3 a)** State functions of liver and describe any two tests performed for the diagnosis of liver diseases. (07)
- b)** State biosynthesis of histamine and serotonin. (05)
- Q.4** Write short note any **THREE** of the following (12)
- a) Reverse transcription
  - b) Nutritional value of proteins
  - c) Feedback inhibition
  - d) Uremia

**SECTION - II**

- Q.5 A)** Answer any **FOUR** of the following (08)
- a) What is fasting blood sugar level?
  - b) What is post – renal condition?
  - c) What is renal acidosis?
  - d) How methanol toxicity is treated?
  - e) What are metallo enzymes? Give two examples.
- B)** State biochemical role of essential fatty acids. (03)
- Q.6** What is ‘ $\beta$  – Oxidation’? Explain in detail. (12)
- Q.7 a)** What is enzyme specificity? Give different types of it. (07)
- b)** What is oxidative deamination? Explain in detail. (05)
- Q.8** Write short note any **THREE** of the following (12)
- a) Membrane structure
  - b) Electron transport chain
  - c) Vitamin – C
  - d) Role of trans – aldolase in carbohydrate metabolism

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