

FACULTY OF PHARMACY
Pharm. D (6 YDC) I-Year (Main) Examination, July 2017

Subject : Medicinal Biochemistry

Time : 3 Hours**Max. Marks: 70**

Note: Answer all questions from Part - A and answer any five questions from Part-B.

PART – A (10 x 2 = 20 Marks)

- 1 Explain briefly the role of hormones in water and sodium homeostasis in the body.
- 2 What are apoproteins ? Write their functions.
- 3 What is RIA? Write any two clinical applications of the same.
- 4 What are coenzymes? Write the biochemical role of Nicotinamide coenzymes.
- 5 Write the biochemical organization and functions of plasma membrane.
- 6 What is Fatty liver? Write the different causes.
- 7 What is urine concentration test? Write the diagnostic significance.
- 8 Write briefly about metabolic acidosis and compensatory mechanisms for its correction.
- 9 What is Biological oxidation?
- 10 Write the significance of Glucose tolerance test.

PART – B (5 x 10 = 50 Marks)

- 11 Explain in detail DNA replication process in prokaryotes.
- 12 What is ELISA? Explain the principle and techniques involved in various types with their applications.
- 13 (a) Explain the nomenclature and classification of enzymes.
(b) Write the biological significance of ATP.
- 14 (a) List out various abnormal constituents in urine sample. Explain the tests to detect glucose, proteins and ketone bodies in urine.
(b) Explain hormonal regulation of Lipid metabolism.
- 15 Explain the steps involved in gluconeogenesis and explain its significance.
- 16 Explain Krebs's cycle with its regulation.
- 17 (a) Explain the synthesis of Bile salts from cholesterol.
(b) Write short notes on disorders of Lipoproteins.
- 18 (a) Explain DNA repair mechanisms.
(b) Explain urea cycle and its metabolic disorders.
