

PARUL UNIVERSITY
FACULTY OF MEDICAL SCIENCE & RESEARCH
M.B.B.S, Examination September - 2017

Year: 1**Subject Code: 19100106****Subject Name: Biochemistry-II****Date: 29/09/2017****Time: 10:00 am to 12:30 pm****Total Marks: 50****Instructions:**

1. Attempt all questions from each section.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Write section-A, section-B on separate answer sheets.

SECTION – A

Q.1 Structured Essay Question:**(10)**

Describe the process of transcription. What are the post transcriptional modifications? Mention two inhibitors of transcription. (6+3+1)

Q.2 Discuss on: (any three)**(15)**

- (a) Describe uric acid formation and mention the clinical significance of its estimation.
- (b) Mention the normal level of serum calcium. Explain the hormonal regulation of serum calcium.
- (c) Urea Cycle
- (d) Formation & Fate of Bilirubin.

SECTION – B

Q.1 Write short notes on: (any two)**(08)**

- (a) Name the important compounds formed from Glycine.
- (b) Lac Operon Model.
- (c) Functions of Plasma proteins.

Q.2 Write briefly on: (any four)**(12)**

- (a) Basal Metabolic rate (BMR)
- (b) Application of radioactivity.
- (c) Metabolic acidosis.
- (d) Creatinine clearance test.
- (e) List the different classes of Immunoglobulin's and mention the functional role.

Q.3 Answer in one sentence**(05)**

1. Name two biochemical markers of cancer.
2. Explain why odema develops in hypo albuminemia.
3. Principle of colorimeter.
4. Features of Genetic Code.
5. List the biochemical abnormalities seen in phenylketonuria.