

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

Year: 1**Subject Code: 19100106****Subject Name: Biochemistry - II****Date: 26/07/2017****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 Name Aromatic Amino acids. Describe the pathway of Phenyl Alanine metabolism. Mention (10)
compounds derived from Tyrosine. Add a note on any one associated disorder.

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

- (a) Translation.
- (b) Immunoglobulins.
- (c) Calcium homeostasis.
- (d) Clearance Tests.

SECTION – B

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

- (a) Porphyrins.
- (b) Secondary structure of Proteins.
- (c) Salvage pathway of Purine nucleotides.

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

- (a) Basal Metabolic Rate (BMR).
- (b) Structure and functions of tRNA.
- (c) Lac Operon Model.
- (d) Metabolic Acidosis.
- (e) Active Transport.

Q.3 Answer in one word. (05)

1. Bile salts and bile pigments are detected in urine in _____ and _____
types of jaundice.
2. Non protein amino acids of urea cycle are _____ and _____.
3. Disorders of Protein Energy Malnutrition are _____ and _____.
4. Two examples of Tumour Markers are _____ and _____.
5. i. Normal Serum Potassium level _____.
ii. Normal Serum Albumin level _____.