

PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
M.Sc. Summer 2022-23 Examination

Semester: 4**Subject Code: 11203217****Subject Name: Clinical Biochemistry****Date: 20-03-2023****Time: 2:00pm to 4:30pm****Total Marks: 60****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1. A) Brief note (4x2) (08)**
(a) Liver function tests related to protein.
(b) Renal Function Tests
- Q.1. B) Answer the following questions (Any two)**
(a) Brief note (2x2) (04)
1. Thalassemia
2. Sickle cell anemia
(b) Short note on Hazards related to Clinical Biochemistry Laboratory (04)
(c) Short note on Lesch-Nyhan Syndrome (04)
- Q.2. A) Answer the following questions.**
(a) Brief note (2x2) (04)
1. Insulin stimulation test
2. Pentagastrin test
(b) What are the tests used in investigation of porphyrias and Porphyrinuria. (04)
- Q.2. B) Answer the following questions (Any two)**
(a) Short note: Enzyme assays in myocardial infarction (03)
(b) Short note on maple-syrup urine disease (03)
(d) Mention 3 types of Inborn errors of amino acid metabolism (03)
- Q.3. A) Essay type (08)**
Describe the nature and significance of diagnosis of diabetes mellitus- glucose tolerance test, random, fasting and postprandial glucose levels
- Q.3. B) Answer the following questions (Any two)**
(a) Short note: Atherosclerosis (04)
(b) Short note on Disaccharidase deficiency (04)
(c) Short note on lactose intolerance (04)
- Q.4. A) Answer the following questions.**
(a) Brief note (2x2) (04)
1. Orotic aciduria
2. Xanthinuria
(b) Describe the Good Lab Practices and maintenance of Clinical Lab (04)
- Q.4. B) Answer the following questions (Any two)**
(a) Mention types of Porphyrias (03)
(b) Short note on Plasma lipids and lipoproteins (03)
(c) Short note on Hartnup's disease (03)