

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
M.Sc., Summer 2017-18 Examination

Semester: 4

Subject Code: 11203251

Subject Name: Clinical biochemistry

Date: 08/05/2018

Time: 02:00PM TO 04:30PM

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) Essay type/ Brief note (4x2) (Each of 04 marks) (08)**
(a) Compensatory mechanism of acidosis and alkalosis.
(b) Plasma proteins—examples, properties and functions
- Q.1. B) Answer the following questions (Any two)**
(a) Short note/ Brief note (2x2) / Schematically label the figures (2x2) (Each of 02 marks) (04)
1. Glucose tolerance test—definition and significance
2. Graph of OGTT
(b) Jaundice (04)
(c) GIT hormones (04)
- Q.2. A) Answer the following questions.**
(a) Short note/ Brief note (2x2) (Each of 02 marks) (04)
1. Pregnancy tests
2. Disorders of gastric function
(b) Hemoglobinopathies (04)
- Q.2. B) Answer the following questions (Any two)**
(a) Short note (Each of 01 marks) (03)
1. Erythropoiesis
2. Fatty liver
3. Name of renal hormones
(b) Nephrotic syndrome (03)
(c) Malabsorption syndrome—tests for their evaluation & significance (03)
- Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks) (08)**
(a) Pregnancy toxemia
(b) Thyroid function test--- chemistry, functions & metabolism
- Q.3. B) Answer the following questions (Any two)**
(a) Short note/ Brief note (2x2) (04)
1. Renal function tests—name of investigations & their significance
2. Abnormalities of parathyroid functions
(b) Cardiac markers or enzymes (04)
(c) Liver function tests –investigations & their interpretation and significance (04)
- Q.4. A) Answer the following questions.**
(a) Short note/ Brief note (2x2) (Each of 02 marks) (04)
1. Lipoproteins and apolipoproteins
2. Disorders of adrenal medulla & cortex
(b) Diabetes mellitus—cause, types, symptoms, treatment (04)

Q.4. B) Answer the following questions (Any two)

(a) Short note

(Each of 01 marks)

(03)

1. Urolithiasis
2. Name of placental hormones
3. Hepatitis

(b) Biochemical effects of tumors

(03)

(c) Role of PTH and calcitonin in Ca^{++} metabolism

(03)