

**BSc DEGREE EXAMINATION DECEMBER 2017  
(Sixth Semester)**

**Branch- BIOCHEMISTRY**

**CORE ELECTIVE-II CLINICAL BIOCHEMISTRY**

Time : Three Hours

Maximum : 75 Marks

**SECTION-A (20 Marks)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** marks (10 x 2 = 20)

- 1 What is hyper glycaemia? Explain the Causes.
- 2 How is GTT carried out? Give the various findings.
- 3 Define Tay-sach's diseases.
- 4 What is Gaucher's disease?
- 5 Explain the enzyme defect's and clinical significance of Alkaptonuria.
- 6 Explain any two enzyme makers in liver diseases.
- 7 Describe the clinical significance of Xanthinuria.
- 8 What is Jaundice? Explain.
- 9 Explain the detection of catecholamine levers in plasma and urine.
- 10 Write a note on clinical applications of thyroid hormone measurements.

**SECTION - B (25 Marks)**

Answer **ALL** Questions

**ALL** Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Explain type I and type II diabetes mellitus.  
OR  
b Explain the hyperinsulinism based hypoglycemia's.
- 12 a Explain the diagnosis of Steatorrhea .  
OR  
b Write short note on typoslipoproteinemia.
- 13 a Discuss in detail on enzyme markers of myocardial infarction.  
OR  
b Explain the abnormalities of
  - (i) Homocysteinuria
  - (ii) Albinism.
- 14 a Write in detail about the causes and characteristic features of Gout.  
OR  
b Discuss on
  - (i) Ozotic aciduria, (ii) Dubin Johnson disease.
- 15 a Write a note on ACTH.  
OR  
b Explain the abnormalities hyperthyroidism.

**SECTION -C (30 Marks)**

Answer any **THREE** Questions

**ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Explain in detail on types of Glycogen storage diseases.
- 17 Elaborate the clinical complications of Hypereproteinemia.
- 18 Explain the abnormalities of
  - (i) Phenylketonuria (ii) Hartnup disease,
- 19 Write in detail the vanden Bergh's reaction for estimating total and direct bilirubin in blood. Give its clinical significance.
- 20 Elaborate the details on thyroid function tests.