

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2018
(Fourth Semester)

Branch – **BIOCHEMISTRY**

ADVANCED CLINICAL BIOCHEMISTRY

Time: Three Hours

Maximum: 75 Marks

SECTION -A (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks (5 x 6 = 30)

- 1 a Write a note on CSF composition.
OR
- b How is pregnancy test conducted? Give the clinical significance of the test.
- 2 a Explain the clinical examination of duodenal contents.
OR
- b What is Proteinuria? What are the methods used to identify the protein in the urine?
- 3 a Write the principle involved in the assay of steroid hormones. Add a note on its clinical significance.
OR
- b Narrate the laboratory methodology and findings commonly followed for evaluation of parathyroid hormones.
- 4 a How is the gastric function test is carried out? Give the interpretations.
OR
- b Elaborate the diagnostic importance of the enzyme pattern in myocardial infarction.
- 5 a Enumerate the metabolic pattern observed in cancer cells.
OR
- b Give an overview on the disorders associated with electrolytes.

SECTION -B (45 Marks)

Answer any **THREE** questions

ALL questions carry **EQUAL** Marks (3 x 15 = 45)

- 6 Narrate the standard operating procedures followed in the collection, processing and blood transfusion process.
- 7 Describe in detail about abnormal constituents of Urine. Mention their significance.
- 8 Write a brief note on the clinical significance of Thyroid hormones. Explain how will you determine hypo and hyperthyroidism by assaying T3, T4 and TSH.
- 9 What is Hepatitis? Bring out the causes, symptoms and biochemical features of Hepatitis.
- 10 Describe the diagnostic and biochemical parameters associated with abnormal Protein metabolism.