

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018
(Fourth Semester)

Branch - **BIOCHEMISTRY**

ADVANCED CLINICAL BIOCHEMISTRY

Time: Three Hours

Maximum: 75 Marks

SECTION -A 130 Marks)

Answer ALL questions

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

- 1 a Describe the collection of blood by arterial and venous puncture.
OR
b Discuss the composition of normal CSF. Bring out the changes in CSF in infection.
- 2 a Discuss the composition of biliary calculi.
OR
b Explain the examination of resting contents in gastric juice and its clinical significance.
- 3 a Write the principle of thyroid hormone assay.
OR
b Write a note on adrenal abnormal function and its significance.
- 4 a What are the various types of free radicals? Explain the role in disease.
OR
b What is fatty liver? Bring out the causative agents of fatty liver.
- 5 a What is leukemia? Mention its types and clinical features.
OR
b Discuss the metabolic disorder of calcium and phosphorous.

SECTION -B (45 Marks)

Answer any THREE questions

ALL questions carry EQUAL Marks (3 x15 = 45)

- 6 Comment on :
(i) Test for pregnancy (ii) Rheumatoid arthritis test.

Give tests and discuss their mechanisms to identify sugar, protein, ketone bodies, bilirubin, prophyrin in urine.
- 8 Describe the principle of steroid hormones assay and its clinical significance.
- 9 Describe the enzyme profile of myocardial infarction.