

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2017
(Fourth Semester)
Branch - **ZOOLOGY**
CHEMISTRY-11

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks!)

Answer **ALL** questions

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

- 1 Name the sulphur compounds used as preservatives.
- 2 What is EDTA? Give its structure.
- 3 What is coenzyme? Give its function.
- 4 What are proteins?
- 5 Define Molarity.
- 6 How volatile compounds can separates from non-volatile compounds?
- 7 Write down the Faraday's first and second law.
- 8 What is meant by quantum yield?
- 9 What is green chemistry?
- 10 Write the structure of myoglobin.

SECTION - B (25 Marks!)

Answer **ALL** Questions

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

- 11 a Write down the essential qualities of good fertilizer.
OR
b Give the preparation and advantages of urea.
- 12 a Give the preparation and properties of glycine.
V OR
b Write down the manufacture of sprit.
- 13 a Explain the distillation under reduced pressure.
OR
b Write down the principle and applications of column chromatography.
- 14 a What is photosensitization?
OR
b Define molar conductance and equivalent conductance
- 15 a Write down the toxic, effects of zinc.
OR
b Explain the fluorine toxicity.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Write down the preparation and properties of per-disulphuric acid.
- 17 Explain the primary, secondary and tertiary of protein.
- 18 Write short notes on concentration terms mass percentage, volume percentage, molality, ppm and mole function.
- 19 What is buffer solution? Write the mechanism of buffer action.
- 20 **Evnlain** the toxic effects of various chemical snecies of mercury.