

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2017
(Fourth Semester)

. Branch- PHYSICS

CHEMISTRY - II

Time: Three Hours

*

Maximum: 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

t ** - ■

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

- 1 Define standard deviation.
- 2 _ What is precision?
- 3 Write any one method of preparation of thiophene.
- 4 Distinguish soap and detergent.
- 5 Define p^H .
- 6 What is meant by corrosion?
- 7 Define isothermal process.
- 8 What is meant by reversible process?
- 9 Define thermal pollution.
- 10 Define noise pollution. . • N .

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a Classify error and how will you minimize error?
OR
b Define mean and median.
- 12 a Write down preparation and any three chemical properties of pyridine.
OR
b How are amino acids classified? Give any two properties of aminoacids.
- 13 a Explain Faraday's law of electrolysis.
OR
b Write down the importance of p^H and buffer in living system. •
- 14 a Derive an expression for the relation between C_p and C_v .
OR
b Explain the instrumentation of IR.
- 15 a Give account on* the source and effect of noise pollution. .
OR
b Classify pollutants.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Write note on simple first aid procedure for accidents in laboratory.
- 17 Define soap . Explain its types . How is it manufactured?
- 18 Give a brief account on the different types of conductometric titrations with graphs.
- 19 Explain the principle of Raman spectroscopy with instrumentation diagram. and its applications.
- 20 Discuss the sources of thermal pollutants and how will you control them.