

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2018
(Second Semester)

Branch – CHEMISTRY

INDUSTRIAL CHEMISTRY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

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

- 1 Mention any four raw materials used in glass industry.
- 2 What is meant by Portland cement?
- 3 Write the p^H value of the fertile soil.
- 4 What is meant by Paris green?
- 5 How is lithopone used as a pigment?
- 6 Define emulsion paints.
- 7 How does defection occur in sugar industry?
- 8 What is the main raw material for pulp and paper industries?
- 9 Define soaps.
- 10 What is surface active agents? Give an example.

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a Write any five chemical properties of glass.
OR
- b Write the types of Portland cement.
- 12 a Describe the role of nitrogen, phosphorous and potassium in the plant.
OR
- b How are insecticides classified based on their mode of action?
- 13 a Discuss the constitution of emulsion paints.
OR
- b Briefly discuss any one protein adhesive.
- 14 a How is the juice extracted from cane sugar?
OR
- b Write the calendaring process in paper industry.
- 15 a How is glycerine recovered from spent lye?
OR
- b Explain the role of fillers and additives in detergents.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Write a note on coloured glass and also discuss the factors which affect the quality of cement.
- 17 How are fertilizers classified?
- 18 Discuss the constitution of paints and the setting of paints.
- 19 How is soda pulp obtained from paper?
- 20 Describe (i) Cleaning action of soaps (ii) Corrosion inhibitors.

Z-Z-Z

END