

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 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 What are the raw materials used in glass industry?
- 2 What is meant by Portland cement?
- 3 Write about major plant nutrients with examples.
- 4 What is meant by natural insecticides & give examples?
- 5 What are the constituents of paints?
- 6 Write the uses of Zinc oxide as pigments?
- 7 Define the term "Fermentation".
- 8 How debarking can be done in paper industry?
- 9 What are the main sources of soap manufacturing?
- 10 Define Detergent.

SECTION- B (25 Marks)

Answer **ALL** Questions

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

- 11 a How annealing process occur in glass industry?
OR
b Discuss the cement industries in India & its importance.
- 12 a Write about the essential requirements of fertilizers.
OR
b How insecticides are classified according to the mode of action?
- 13 a What is meant by emulsion paint & how the point is set?
OR
b Write about animal glue?
- 14 a How juice is extracted from cane sugar?
OR
b Describe calendaring process in paper industry.
- 15 a Write about cleansing action of soap?
OR
b What is meant by anionic detergent & explain with examples.

SECTION - C (30 Marks!)

Answer any **THREE** Questions

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

- 16 Write about the setting of cement?
- 17 How urea is manufactured?
- 18 Write about ultramarine blue & rubber based adhesive.
- 19 How spirit is manufactured?
- 20 Write about laundry & toilet soap?