

1. (CBCS) DEGREE EXAMINATION, APRIL 2022

Fourth Semester

Chemistry

Non Major Elective — APPLIED CHEMISTRY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

_____ salts of higher fatty acids is called soft soaps.

- (a) Na (b) K
(c) Ca (d) None of the above

Detergents are

- (a) cationic (b) anionic
(c) zwitter ionic (d) all the above

Aspirin is a

- (a) Antibiotic (b) Analgesics
(c) Laxatives (d) Antispectis

The main constituent of boot polish are

- (a) Naptha (b) Wax
(c) Gamarabic (d) All the above

Phenyl is made from

- (a) Creosote oil and water
(b) Coconut oil and water
(c) Mineral oil and water
(d) All the above

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

- (a) Give the manufacture of toilet soap.

Or

- (b) Explain the cleansing action of soap.

- (a) Write a note on biofertilizer.

Or

- (b) Write a note on mixed fertilizer.

3. _____ helps the early formation of roots, growth and seed formation.

- (a) N (b) P
(c) K (d) None of the above

4. The fertilizer that contains maximum percentage of nitrogen is

- (a) Ammonium sulphate
(b) KNO₃
(c) Triple super phosphate
(d) None of the above

5. The polymers that can be easily mended by heating is called

- (a) Thermo setting polymers
(b) Thermoplastics
(c) Elastomers
(d) Fibres

6. Order is obtained from

- (a) Polyacrylo nitrile (b) Polythene
(c) PVC (d) Poly styrene

7. Boric acid is used as

- (a) Mouthwash (b) Antiacid
(c) Analgesics (d) Antiseptics

13. (a) Give the differences between thermoplatstic and thermo setting polymer.

Or

- (b) Explain the uses of butyl rubber and neoprene.

14. (a) Write a note on tetra cyclines.

Or

- (b) What are sedatives and give their uses?

15. (a) Give the preparation and uses of boot polish.

Or

- (b) How phenyl and moth balls are prepared?

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) What are the advantages of detergents over soaps?

Or

- (b) Explain the raw materials used in the manufacture of soap.

17. (a) Explain the role of nitrogen, phosphorus and potassium on plant growth.

Or

- (b) How the following are prepared and give their uses. (i) KNO_3 (ii) Urea.

18. (a) Write a note on the following (i) Orlon
(ii) Nylon 6, 6.

Or

- (b) Explain the uses of the following rubber
(i) thiocol (ii) poly styrene.

19. (a) Write a note on :

- (i) Penicillins
(ii) Laxatines.

Or

- (b) Explain about paracetamol and aniacids.

20. (a) How are the following prepared

- (i) chalk crayons
(ii) talcum powder.

Or

- (b) How are agarbathis and writing inks are prepared?
-