

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, OCTOBER 2012

(CCSS)

Chemistry

CH 5D 02—Open Course I—CHEMISTRY IN EVERYDAY LIFE

Maximum : 30 Weightage

Three Hours

Section A

Answer all twelve questions.

1 The following is an example for flavor enhancer :

(a) FeCl_3 .

(b) MSG.

(c) $\text{C}_6\text{H}_5\text{COOH}$.(d) AlCl_3 .

2 Hard soaps contain :

(a) Na.

(b) K.

(c) Al.

(d) Mg.

3 Cationic detergents are used as :

(a) Detergents.

(b) Fabric softeners.

(c) Hydrophilic agents.

(d) None of these.

4 PVC is a polymer containing the monomer :

(a) Vinyl chloride.

(b) Vinyl acetate.

(c) Vinyl alcohol.

(d) Ethylene.

5 Skin softeners are called _____.

6 Both thermosetting and thermoplastic polymers can exist in _____ state.

7 Alkyl trimethyl ammonium chloride is a well known example for _____ detergent.

8 The main fatty material used in the manufacture of soap is _____.

9 Give one example for food adulteration in which the removal of a vital element takes place.

10 Which is a common filler used in soap industry ?

11 What is the use of builders in detergents ?

12 What are Shampoos ?

(12 × ¼ = 3 weightage)

Turn over

Section B

Short answer type.
Answer all nine questions.

- II. 13 What is the action of lemon juice in soap shampoos ?
 14 What is meant by amphoteric detergents ? Give one example.
 15 Give names for different types of surfactants.
 16 What are the characteristics of a good quality toilet soap ? Give any two.
 17 What is meant by food adulterant ?
 18 What is the objective of food adulteration Act of 1954 ?
 19 What is meant by plastic ?
 20 Give two uses of LDPE.
 21 Give any *two* examples for thermo plastic resins.

(9 × 1 = 9 weight)

Section C

Short Paragraph Questions.
Answer any five questions.

- III. 22 Write a short note on Polymerization process.
 23 Explain the difference between thermosetting and thermoplastic resins.
 24 Write a note on skin products.
 25 Describe the environmental hazards of detergents.
 26 Write a short note on food colours permitted and not permitted.
 27 Briefly explain the additives, fillers and flavours used in soap manufacturing.
 28 Explain how is washing soap manufactured.

(5 × 2 = 10 weight)

Section D

Essay questions.
Answer any two questions.

- IV. 29 What is Soap ? How is it manufactured ? Give any one process.
 30 Explain the following (a) soft drinks and its formulation ; (b) liquid soap and its manufacture.
 31 Write an essay on plastics in daily use giving suitable example and their importance.

(2 × 4 = 8 weight)