



Total No. of Questions: 4

Total No. of Pages: 2

OPEN ELECTIVE
First Year (F.Y.B.A)
COURSE CODE: CHE11301
COURSE NAME : Making of Soaps and Detergents
(Semester I)

Course Type: Open Elective

Paper: OE 2

Time: 2 Hours

Credits: 2

Max. Marks: 30

SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

SECTION: A

Q1) Multiple Choice Question (Attempt any 5/7)

[5 X 1= 5]

1. Soaps are sodium or potassium salt of _____
a. Benzoic acid b. fatty acids c. oxalic acid d. hydrochloric acid
2. The plant origin fatty acids are _____
a. coconut oil b. soyabean c. linseed oil d. All of these
3. Heavy metal salts of fatty acids are used as _____
a. washing agents b. lubricants c. builders d. none of these
4. The important raw material for detergent is/are _____
a. oils and fats b. Fatty acids c. Alkyl benzene sulphonate d. oleum
5. _____ colour is obtained when chrome green is added as colouring material.
a. violet b. red c. green d. pink
6. WHO stands for _____
a. World Health Organization b. World Human Organization
c. World Hazard Organization d. World Happiness Organization
7. Which one of the following is used in the manufacture of soaps?
a. Cutting oil b. Kerosene oil c. Mobil oil d. Vegetable oil

SECTION: B

Q2) Answer the following in one sentence (Attempt any 5/7)

[5 X 1= 5]

1. Give any two examples of soaps and detergents used in day to day life.
2. What are detergent builders?
3. Give general formula of soap.
4. What are Micelles?
5. What is hard water?
6. What are non-ionic surfactants?
7. Define hydrophilic nature.

SECTION: C

Q3) Answer the following/Write short notes on following (Attempt any 2/4)

[2 X 5 = 10]

1. Write short note on types of soaps.
2. State advantages of detergents.
3. What are additives?
4. Discuss in brief raw materials required for manufacture of soap.

SECTION: D

Q4) Answer the following (Attempt any 2/4)

[2 X 5 = 10]

1. Explain washing action of soap.
2. Differentiate between soaps and detergents.
3. Draw the flow sheet for manufacture of detergent
4. What are surfactants? Give its types.
