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Register Number:

DATE:5-4-2017

**ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU-27**

**B.Sc. CBCS-IV SEMESTER**

**SEMESTER EXAMINATION- APRIL 2017**

**CH OE 4116 - Cosmetic Chemistry - Section B**

**Time: 1hr 30min Maximum Marks: 35**

**Note:** *The question paper has* **TWO** *pages and* **THREE** *parts. All parts are compulsory.*

**PART A**

Answer **ALL** the following questions: 5x1=5

1. An oily or waxy matter in the skin secreted by microscopic gland is called as

 (i) Sebum (ii) Serous (iii) Mucous (iv) Saliva

2. Most common surfactant present in soaps

 (i) Barium sulfate (ii) Ammonium molybdate (iii) Copper sulfate (iv) sodium lauryl sulfate

3. Primary composition of lipid thickeners are

 (i) Hydrophilic materials (ii) Lipophilic materials (iii) Lipophobic materials(iv) Hydrophobic

 materials

4. The bar soaps have pH of

 (i) 5.0 – 6.0 (ii) 3.0-4.0 (iii) 3.5 – 7.5 (iv) 9.0 – 10.0

5. A material capable of cleaning and polishing is called as

 (i) Abrasive (ii) fibre (iii) Cement (iv) Refractory

**PART B**

Answer any **FOUR** of the following: 4x5=20

6.a) What is the purpose of using cleansers in cosmetics?

 b) What are the types of sunscreen lotions? Explain. (2+3)

7.a) What are surfactants?

 b) Briefly explain the various notes of perfume. (2+3)

8.a) What are dyes? Give an example

 b) Write a note on (i) Thickening agents (ii) Emulsions (2+2+2)

9.a) What is the function of fluorides in toothpaste.

 b) Explain distillation method to extract essential oils from plant sources (2+3)

10.a) What do you mean by pigment milling?

 b) How Herbal oral care products are different from synthetic oral care products. Explain (2+3)

11.a) Define sun protection factor (SPF).

 b) Briefly explain the steps of manufacturing colour cosmetics. (2+3)

**PART C**

Answer any **TWO** of the following: 2x5=10

12. Write a note on essential oils which are important in cosmetic industry. Mention their uses.

13. What are the main constituents of soap? Explain the cleansing action of soap.

14. What are naturally derived and synthetic thickeners? Briefly explain.