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| Register Number: |

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

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

**SEMESTER EXAMINATION- APRIL 2017**

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

**Time: hours 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.The gland which lubricates and acts as waterproof for skin and hair in mammals is

 (i)[Meibomian gland](https://en.wikipedia.org/wiki/Meibomian_gland%22%20%5Co%20%22Meibomian%20gland)(ii)Sebaceous gland (iii)[Pyloric glands](https://en.wikipedia.org/wiki/Pyloric_glands)(iv)[Sublingualgland](https://en.wikipedia.org/wiki/Sublingual_gland)

2. Polyacrylic acid is also known as

 (i) Isoprene(ii)[Suberin](https://en.wikipedia.org/wiki/Suberin%22%20%5Co%20%22Suberin)(iii)[Kevlar](https://en.wikipedia.org/wiki/Kevlar)(iv)Carbomer

3. An economical alternative to sandalwood oil

(i)Isoboronylcyclohexanol(ii)Phenylethylalcohol(iii)Propylanisole(iv)Ethyl methyl ketone

4. The skin’s surface pH is on average

 (i)6.6(ii)2.3(iii)4.7(iv)9.0

5.One of the abrasive present in toothpaste is

 (i) Chloride (ii) Carbonate (iii) Sulphate (iv) Bromide

PART B

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

6.a) What is the formulation of nail polish?

b) Give the comparison between synthetic and herbal oral products. (2+3)

7.a)What is co-surfactant?

b) Which are the different fragrance notes of perfume? Explain. (2+3)

8.a) What are the main constituents of tooth paste?

b)Write a note on these (i) Film forming agents (ii) Plasticizers (2+2+2)

9.a) What is meant by salt curve?

b)Give the types of cleansers and explain them. (2+3)

10.a) What are dyes? Give an example.

b) Discuss the different types of emulsions by giving examples. (2+3)

11.a) Name any four ingredients of perfume.

 b) Explain any one method of extraction of essential oils from plant source (2+3)

PART C

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

12. Mention the principal constituents of shampoo. Write a note on mechanism of cleansing action of

soap.

13. What are essential oils? Name any three essential oils. Give their importance in cosmetic industry.

14.Briefly discuss the types of thickeners. Give one example for each type.