Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – April/May – 2017**

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| **Code :** | **15CH2003** | **Duration :** | **3hrs** |
| **Sub. Name :** | **CHEMISTRY IN EVERYDAY LIFE** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | | **Course**  **Outcome** | **Marks** | |
| 1. | a. | Differentiate stelization and sanitization. | | CO1 | 2 | |
| b. | Give the common group present in chemical explosives and write the disadvantages of chemical explosives. | | CO1 | 4 | |
| c. | What is the action of ammonia in hair dye products? | | CO2 | 4 | |
| d. | The common cold & cough drugs like Vicks, Action 500, and D’Cold and Analgin (Baralgon) are banned in India- Mention the ill effects of using these drugs? | | CO1 | 10 | |
| (OR) | | | | | | |
| 2. | a. | Give the composition of hair. | | CO1 | 2 | |
| b. | How Hepatitis and diabetes can be diagnosed through urine analysis? | | CO2 | 4 | |
| c. | As an engineer, what way can you help the society to eradicate so called incurable diseases like AIDS, Cancer etc as it is done in the case of Polio? | | CO2 | 10 | |
| d. | Between deodorant and antiperspirant which one will you choose and why? | | CO2 | 4 | |
| 3 | a. | What is microban technology? | | CO1 | 4 | |
|  | b. | Natural dyes are costly, justify your answer? | | CO2 | 4 | |
|  | c. | Adding aginomotto regularly in our diet causes obesity, give reason? | | CO1 | 5 | |
|  | d. | Explain the chemistry of perfumes in spreading the aroma? | | CO2 | 7 | |
| (OR) | | | | | | |
| 4. | a. | When boiling water falls on LPG flame, it glows yellowish. Give reason. | CO2 | | 2 | |
|  | b. | Give the composition of tear drop? | CO2 | | 3 | |
|  | c. | While cutting onion, our eyes get irritated followed by tears, explain the chemistry involved in this process. | CO2 | | 5 | |
|  | d. | Discuss in detail the various ingredients used in talcum powder and the significance of each? | CO1 | | 10 | |
| 5. | a. | Explain the chemistry concept in the case of disappearing ink prepared by NaOH and thymolphthalein? | CO2 | | 5 | |
|  | b. | What is the role of protein in milk as milk is used as one of the ingredient in ice cream? | CO1 | | 2 | |
|  | c. | Write the chemistry concepts on hair dye giving color to hair . | CO1 | | 6 | |
|  | d. | What is certification mark given for pulses? | CO1 | | 2 | |
|  | e. | Flesh of fish smell different than other meat, give reason? | CO2 | | 5 | |
| (OR) | | | | | | |
| 6. | a. | Give reason for the following?  SLS in tooth paste should be less than 1%. | CO2 | | | 5 |
|  | b. | Puff pastries expand when prepared. | CO2 | | | 6 |
|  | c. | Give the advantages and disadvantages of polyphenol (Tea), caffeine (coffee) and capsaicin(chilly) | CO2 | | | 9 |
| 7. | a. | Explain the chemistry concepts like ‘depression in freezing point, addition of air in ice cream making? Why sugar is added in triple time than the normal in ice cream making? | CO2 | | | 10 |
|  | b. | Write a notes on certification marks on fruits, grains and pulses | CO1 | | | 6 |
|  | c. | Give the reasons for color like yellow, red or black in seashells ? | CO2 | | | 4 |
| (OR) | | | | | | |
| 8. | a. | Which type of fabric will you choose to wear in summer and why? | CO2 | | | 5 |
|  | b. | Skin feel cooling effect when cosmetic cream is applied. Give reason | CO1 | | | 3 |
|  | c. | Give the test for identification of adulterant for the following and state the effect of the adulterant? (3x4 = 12)   1. Mango, ii. pepper, iii. Tea, iv. Green Chilli | CO2 | | | 12 |
|  | | **Compulsory:** |  | | |  |
| 9. | a. | What do you mean bybalanced diet? | CO2 | | | 3 |
|  | b. | What is iodized salt? Reason out the need for it? | CO2 | | | 6 |
|  | c. | Is it good for firing crackers, explain the chemistry in making and bursting cracker sand its ill effects? | CO1 | | | 6 |
|  | d. | How will you identify apple is adulterated or not? | CO2 | | | 1 |
|  | e. | Write a note on molecule of happiness. | CO1 | | | 4 |

ALL THE BEST