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. | Name the common group present in all chemical explosive materials. | CO1 | 1 |
| b. | Differentiate sterilization from disinfection. | CO1 | 1 |
| c. | Give the name of the first antibiotic and its inventor. Give the general function of an antibiotic? | CO1 | 4 |
| d. | Why is ammonia added invariably in all hair dye products? | CO2 | 4 |
| e. | Write a short note on diagnosing the diseases through fluid samples of our body(only Blood). | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | The pH of human hair should be in the range of 4.5 – 5.5, why? | CO2 | 2 |
| b. | Can you go for using anabolic steroids to increase strength? Justify your answer? | CO2 | 4 |
| c. | The anticancer agent present in tomatoes is \_\_\_\_\_\_\_\_. | CO2 | 1 |
| d. | 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 |
| e. | Between deodorants and antiperspirants which one you will choose for your utility? why? | CO2 | 3 |
| 3. | a. | When boiling water falls on LPG flame, it glows yellowish. Give reason? | CO2 | 1 |
|  | b. | If manganese element is present in tear drops, what does it indicates? | CO2 | 2 |
|  | c. | While cutting onion, our eyes get irritated followed by tears, Explain the chemistry involved in this process. | CO2 | 4 |
|  | d. | Eating grilled chicken or smoked fish is not good for health. Give reason. | CO2 | 3 |
|  | e. | Discuss in detail the various ingredients used in tooth paste and the significance of each? | CO1 | 10 |
| (OR) | | | | |
| 4. | a. | What is SLS? What is the minimum percentage of SLS needed in tooth paste? | CO1 | 2 |
|  | b. | What is microban technology? | CO1 | 4 |
|  | c. | How are natural dyes are different from synthetic dyes? | CO2 | 4 |
|  | d. | Give the chemical structure and name of aginomotto? | CO1 | 3 |
|  | e. | Explain the chemistry of perfumes in spreading the aroma? | CO2 | 7 |
| 5. | a. | Peeling of onions irritate eyes. Give reason. | CO2 | 7 |
|  | b. | Puff pastries expand when prepared. Give reason. | CO2 | 4 |
|  | c. | Sea shells are mostly made of CaCO3, but are colored, why? | CO2 | 4 |
|  | d. | Water does not relieve the burning sensation of chilly. Why? | CO2 | 2 |
|  | e. | Give the benefit of fluoride for our teeth? | CO2 | 3 |
| (OR) | | | | |
| 6. | a. | Can you explain the chemistry concept in the case of disappearing ink prepared by NaOH and thymolphthalein? | CO2 | 5 |
|  | b. | What is liquid nitrogen ice cream? | CO1 | 2 |
|  | c. | Write a note on hair dye giving color to hair. | CO1 | 6 |
|  | d. | What is certification mark given for oil? | CO1 | 2 |
|  | e. | Flesh of fish smell different than other meat, give reason? | CO2 | 5 |
| 7. | a. | Why do cotton fabrics absorb more water? | 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?  i.Banana, ii. Apple, iii. Ghee, iv. Green Chilli | CO2 | 12 |
| (OR) | | | | |
| 8. | a. | Explain the chemistry concepts involved in ice cream making? | CO2 | 12 |
|  | b. | Write a notes on certification marks on fruits, grains and pulses | CO1 | 4 |
|  | c. | By regularly adding aginomotto in our diets the effects like obesity, behavioral changes can be found, give reasons? | CO2 | 4 |
|  | | **Compulsory:** |  |  |
| 9. | a. | What is iodized salt? Reason out the need for it? | CO2 | 7 |
|  | b. | What is a neurotransmitter? Can you brief on how dopamine level makes a person addict? | CO1 | 6 |
|  | c. | Write a note on molecule of happiness. | CO1 | 7 |

ALL THE BEST