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 – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **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. | What is clinical chemistry? | CO1 | 1 | |
| b. | Who is ‘NOSE’ in perfume industry? | CO1 | 1 | |
| c. | Can cancer be detected at an early stage? Why is it detected in our country at the 3rd or 4th stage only? | CO1 | 4 | |
| d. | Why ammonia is added invariably in all hair dye products? | CO2 | 4 | |
| e. | Explain the various methods involved in the control of AIDS and cancer. | CO1 | 10 | |
| (OR) | | | | | |
| 2. | a. | If the pH of hair should be 4.5 – 5.5 is good, why? |  | 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 ------ |  | 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 the following deodorant and an antiperspirant which one will you choose and why? | CO2 | 3 | |
| 3. | a. | How much minimum percentage of SLS is needed in tooth paste? | CO1 | 2 | |
|  | b. | Why is microban technology needed? | CO1 | 4 | |
|  | c. | Give the advantages and disadvantagesnatural 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 | |
| (OR) | | | | | |
| 4. | a. | Which ion causes the LPG gas to burn in yellowish, when boiling water falls on LPG flame? | CO2 | 1 | |
|  | b. | Give the composition of tear drops? | CO2 | 2 | |
|  | c. | While cutting onion, our eyes get irritated followed by tears, explain the chemistry involved in this process. | CO2 | 4 | |
|  | d. | Write a short notes on PAH | CO2 | 3 | |
|  | e. | Discuss in detail the various ingredients used in talcum powder and the significance of each? | CO1 | 10 | |
| 5. | 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 chemistry in giving color to hair . | CO1 | 6 | |
|  | d. | What is certification mark given for friuts? | CO1 | 2 | |
|  | e. | Flesh of fish smell different than other meat, give reason? | CO2 | 5 | |
| (OR) | | | | | |
| 6. | a. | Give reason for the following?  Peeling of oinons irritate eyes. | CO2 | | 7 |
|  | b. | Puff pastries expand when prepared. | 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 |
| 7. | a. | Explain the chemistry concepts involved in ice cream making? | CO2 | | 12 |
|  | b. | Write a notes on certification marks on grains and pulses | CO1 | | 4 |
|  | c. | By regularly adding aginomotto in our diets the effects like obesity, addiction to the same taste can be found, give reasons? | CO2 | | 4 |
| (OR) | | | | | |
| 8. | a. | Cotton fabrics absorb more water? Reason out. | 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. Apple, iii. Ghee, iv. Pepper | CO2 | | 12 |
|  | | **Compulsory:** |  | |  |
| 9. | a. | Discuss balanced diet? | CO2 | | 3 |
|  | b. | How do we get color and star effects on bursting crackers? | CO2 | | 6 |
|  | c. | What is a neurotransmitter? Can you brief on how dopamine level makes a person addict? | CO1 | | 6 |
|  | d. | How will you identify pepper are adulterated or not? | CO2 | | 1 |
|  | e. | Write a note on molecule of happiness | CO1 | | 4 |

ALL THE BEST