

### SECTION-D

No. of Printed Pages : 4

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Roll No. ....

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain Cleansing action of Soaps and its chemical composition ?

Q.24 Write Chemical Formula of

- 1) Carboxylic acid
- 2) Phenol and give their uses ?

Q.25 Explain

- 1) Tyndall Effect
- 2) Electrical property of sol ?

### 2nd Year / Textile Processing

#### Subject : Basics for Textile Chemistry

Time : 3 Hrs.

M.M. : 60

### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Soaps can be used with .....water?

- |         |         |
|---------|---------|
| a) Hard | b) Warm |
| c) Cold | d) Soft |

Q.2 Phenomenon of scattering of light by the sol particles is called .

- |                 |                     |
|-----------------|---------------------|
| a) Sound effect | b) Tyndall effect   |
| c) light effect | d) All of the above |

Q.3 Retarders.....rate of reaction.

- |                  |             |
|------------------|-------------|
| a) Increases     | b) Decrease |
| c) Do not change | d) Keeps    |

Q.4 A.....solution is one which maintains the pH of the solution .

- a) Buffer                                      b) Stock
- c) Alkaline                                      d) Acidic

Q.5  $\text{Na}_2\text{CO}_3$  is a.....

- a) Acid    b) Base
- c) Liquid    d) Solid

Q.6 Lyophobic sols are also called Solvent ...sols ?

- a) hating    b) Hating
- c) Attracting    d) Keeping

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Chemical Formula for Sulphuric Acid is ?

Q.8 pH above 9 are .... in nature ?

Q.9 Chemical equilibrium can be seen only for...system ?

Q.10 General Formula for phenols are .....?

Q.11 Alkali Release..... ion in water ?

Q.12 What are Exothermic reactions ?

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Write mechanical properties of sol?

Q.14 Describe theory of catalysis ?

Q.15 Give difference between soap & detergent ?

Q.16 What are characteristics of catalytic reaction?

Q.17 Write application of Le-chateleir Principle ?

Q.18 Write application of colloids ?

Q.19 Explain gold number in colloids ?

Q.20 Why buffers are important in chemistry ?

Q.21 Differentiate between True solution and dispersion

Q.22 Write a short note on chemical equilibrium ?