# 312336

	425 He	ours / 70 Marks Seat No.	
		<ul> <li><i>tions</i> - (1) All Questions are <i>Compulsory</i>.</li> <li>(2) Answer each next main Question on a new page.</li> <li>(3) Illustrate your answers with neat sketches whereve</li> </ul>	r
		<ul><li>necessary.</li><li>(4) Figures to the right indicate full marks.</li><li>(5) Assume suitable data, if necessary.</li></ul>	
		(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.	
		Ma	arks
1.	L	Attempt any <u>FIVE</u> of the following:	10
	a) 1	Define acid and base w.r.t. Arrhenius concept.	
	b) ]	Define molecular weight.	

- c) State the role of reducing agent in wet processing.
- d) State general characteristics of organic compounds.
- e) Define Aromatic hydrocarbon.
- f) List common methods used for the purification of organic compounds.
- g) Define Organic compound.

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## 2. Attempt any THREE of the following: 12 Explain the classification of organic compounds based on their a) functional group. Explain the term: b) i) Heat of solution ii) Heat of dilution c) Explain the process of osmosis with help of diagram. d) A sample of milk has pH of 6.2. Calculate $H^+$ and $OH^-$ . 3. Attempt any THREE of the following: 12 a) Describe the role of thermo chemistry in wet processing. b) Differentiate between Aromatic and Aliphatic compounds.

- Explain any four applications of organic compounds in textile c) industries.
- d) 'Organic acids are generally weak acids'. Justify with example.

### 4. Attempt any THREE of the following:

- Discuss in detail heat of formation and heat of combustion. a)
- Name any four aromatic compounds and write their chemical b) formulae.
- Describe the procedure of determining boiling point of a c) liquid.
- Explain distillation and sublimation process of organic d) compounds.
- Describe following extraction methods of organic compound: e)
  - Solid liquid i)
  - ii) Liquid - liquid

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### 5. Attempt any TWO of the following:

- a) Define Salts. Explain detailed classification of salt with examples.
- b) Identify following chemicals into Scouring, Bleaching Dyeing and Mercerizing agent of fabric:
  - i) Potassium permaganate
  - Sodium hypochlorite ii)
  - Hydrogen peroxide iii)
  - Mixture of NaOH and Na<sub>2</sub>CO<sub>3</sub> iv)
  - v) Alkyl phenol ethoxylates
  - vi) Sodium peroxide
- Explain physical perperties of aliphatic and aromatic c) compounds.

#### 6. Attempt any TWO of the following:

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- a) Describe addition, substitution and elimination reaction with example.
- b) Describe the effect of viscosity on the preparation of printing paste in textile wet processing.
- c) Identify and name the following organic compound according to IUPAC system.

i) 
$$CH_3 - CH_3 - CH_3 - CH_3 - CH_3$$

- ii)  $CH_3 C CH_2 CH_3$ || O
- iii)  $CH_3 CH_2 CH = CH_2$

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