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3	Ho	ours /	100) Marks	Seat N	No.				
Instructions – (1) All Questions are Compulsory.										
			(2)	Answer each	next main (Question	n on a	a nev	w pa	ige.
			(3)	Illustrate your necessary.	answers w	ith neat	t skete	ches	when	rever
			(4)	Figures to the right indicate full marks.						
			(5)	Assume suitab	ole data, if	necessa	ry.			
			(6)	Mobile Phone Communicatio Examination H	, Pager and n devices a Hall.	any of re not	ther E permi	lectr	onic e in	
										Marks
1.		Attempt	any	TEN of the	following:					20
	a) Define pH and write acceptable pH value of water used for wet processing.									
b) Distinguish between temporary and permanent hardness (two points).							of w	rater		
	c)	Draw th	e stru	ose.						

- d) What is the role of soap and detergents in textile wet processing.
- e) Define oils and fats.
- f) Define fuel and classify it with one example.
- g) Define calorific value and write its unit.
- h) Define corrosion and write its types.
- i) Why the galvanised containers cannot be used for storage of food-stuff?
- j) List various types of tiration.

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- k) State the factors affecting stability of complex ions.
- 1) State applications of sodium carbonate.

2. Attempt any FOUR of the following:

- a) State four common impurities present in natural water.
- b) Write the ill effects of using hard water on textile wet processing.
- c) Explain the scales and sludges formation in bodies with the help of suitable diagram.
- d) State the meaning of following terms:
 - (i) priming and
 - (ii) foaming process.
- e) Define the term BOD and COD with suitable examples.
- f) Write the classification of carbohydrates with example.

3. Attempt any FOUR of the following:

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- a) Write the action of enzymes on starch with chemical reaction.
- b) Define the terms: Congealing, Gelatinizing, Gelatinizing temperature, Viscosity.
- c) Write the action of alkali and oxidizing agent on cellulose.
- d) Write the method to determine saponification value of an oil with suitable diagram.
- e) Explain the term hydrogenation reaction of oil with chemical reactions.
- f) State about the property, soap solution as an colloidal electrolyte.

- a) Explain the surface tension and interfacial tension lowering property of soap.
- b) State the characteristics of good fuel.
- c) Write the applications of fuel in textile industry.
- d) Distinguish between dry and wet corrosion.
- e) Write the factors affecting rate of corrosion.
- f) Explain the cathodic protection of metal by sacrifical anode method with labelled diagram.

5. Attempt any <u>FOUR</u> of the following:

- a) Distinguish between Galvanising and Tinning.
- b) Write the process of protecting an article by electroplating with labelled diagram.
- c) Define the terms: Accuracy and Precision.
- d) Classify the methods of chemical analysis. Explain any one of titration method.
- e) Define:
 - (i) Primary standard
 - (ii) Secondary standard with suitable examples.
- f) Write about volumetric methods of estimation of testing of chemicals.

6. Attempt any <u>FOUR</u> of the following:

- a) State the four points to distinguish between co-ordination compound and ionic compounds.
- b) Discuss Werner's co-ordination theory.
- c) State the uses of important sequestering agents in textiles.
- d) State the chemical properties of hydrochloric acid with chemical reactions.
- e) Write the applications of sodium hydroxide in textile industry.
- f) Write the chemical properties of sodium carbonate with chemical reactions.

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