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GUJARAT TECHNOLOGICAL UNIVERSITY BE SEMESTER- Ist /IInd (SPFU) • REMEDIAL EXAMINATION – SUMMER-2015

Subject Code: BSC001 Date:10/06/2015

Subject Name: Chemistry

Time: 10.30AM-01.00PM Total Marks: 70

Instructions:

- 1. Question paper is divided in two sections: objective section and subjective section.
- 2. Attempt both the sections.
- 3. Make suitable assumptions wherever necessary.
- 4. Figures to the right indicate full marks.

SECTION (I) OBJECTIVE SECTION[Q.1 to Q.25(Marks=1 each),Q.26 toQ.30(Marks=2 each)] Time:60 mins. Total Marks:35

1	Iron corrodes faster in			
	A	distilled water	В	soft water
	С	hard water	D	demineralised water
2	Galvanizing is a method of			
	A	coating tin on zinc	В	coating zinc on tin
	С	coating iron on zinc	D	coating zinc on iron
3	Corrosion is a process.			
	A	Oxidation	В	Reduction
	С	Redox	D	None of these
4	Corrosion of iron is also known as			
	A	Rusting of iron	В	Decay of iron
	С	Coating of iron	D	All of these
5	Dry corrosion is also known as corrosion.			
	A	Biological	В	Bacterial

	С	Physical	D	Chemical
6	undergo corrosion.			
	A	Wood	В	Glass
	С	Metal	D	None
7	Starch is a Polymer.			
	A	Natural	В	Synthetic
	С	Semi synthetic	D	elastomer
8	Addition of gives strength and rigidity to rubber.			gidity to rubber.
	A	S	В	N
	С	0	D	С
9	Polythene is formed by			
	A	Phenol	В	Aniline
	С	Ethylene	D	None

10	monomer of PVC is			
	A	Ethylene	В	vinyl chloride
	С	vinyl cyanide	D	acetic acid
Polymer that soften on heating and stiffen on cooling is known as			poling is known as	
	A	Thermosetting	В	Thermoplastic
	С	Fibre	D	Elastomer
12	Higher is the percentage of more is the calorific value.			is the calorific value.
	A	ash content	В	carbon content
	С	moisture content	D	non volatile matter content
13		is secondary fuel.	1	
	A	Coal	В	CNG
	С	wood	D	crude petroleum
14	Ideal fu	el has moisture content.		
	A	Low	В	High
	С	Moderate	D	None of these
15	5 Ideal fuel has Ignition temperature.			
	A	Low	В	High
	С	moderate	D	Zero
16	A good fuel should possess			
	A	very low ignition temperature	В	high moisture content
	С	high calorific value	D	all of these
17	Dehydra	ation means		I
	A	Addition of water	В	Removal of water
	С	Addition of air	D	Removal of air

18	Souring of milk is due to				
	A	Purification	В	Condensation	
	С	Fermentation	D	Distillation	
19	9temperature is favoured for the process of fermentation.			e process of fermentation.	
	A	Very high	В	Very low	
	С	Room	D	Any one of these	
20	20 Enzyme activity is				
	A	Random	В	Organized	
	С	Non specific	D	Very specific	
21	Distillati	on is the process of purification of	f	compounds.	
	A	Solid	В	Gaseous	
	С	Liquid	D	None of these	
22	6-10% Of acetic acid solution is called				
	A	Alcohol	В	Vinegar	
	С	Ester	D	Aldehyde	
23	Enzymes are to temperature.				
	A	Sensitive	В	Non sensitive	
	С	Hard	D	Soft	
24	is renewable source of energy.			ergy.	
	A	petrol	В	Diesel	
	С	bio ethanol	D	Coal	
25	Mantra o	of 3R's is very important according	to g	reen chemistry. The 3R's are:	
	A	reduce, recycle and reuse	В	reaction, reagent and resource	
	С	reactant, reuse and resource	D	any of these	

26	Which o	f the following is not the principle	e following is not the principle of green chemistry?		
	A	waste prevention	В	atom economy	
	С	safer products	D	excess use of solvent	
27	or VOCs, have been replaced and were banned in some paints?			banned in some paints?	
	A	Versatile Organic Chemicals	В	Versatile Odourless Components	
	С	Volatile Organic Compounds	D	Volatile Odourless Components	
28	8 The analytical methods which measure mass are known as			e known as	
	A	gravimetric methods	В	volumetric method	
	С	Polarimetry	D	Titrimetry	
29	Which of the following process gives demineralised water?			lised water?	
	A	Zeolite process	В	ion exchange process	
	С	lime soda process	D	all of these	
30	1 mg/liter = ppm			•	
	A	10	В	2	
	С	1	D	100	

SECTION (II) SUBJECTIVE SECTION [Attempt any five, Each question carries 07 marks] Time:90 mins. Total marks:35

- Q.1 Explain corrosion in detail.
- Q.2 Discuss disadvantages of hardness in water.
- Q.3 Give classification of fuel with examples.
- Q.4 Give differences between Thermoplastic & Thermosetting polymer.
- Q.5 Write a note on Fermentation.
- Q.6 Differentiate between (i) Dry & wet corrosion.
 - (ii) Liquid fuel & solid fuel.
- Q.7 What do you mean by Green chemistry? Explain role of reagents & solvents in green synthesis.