Seat No.: _		Enrolment No.		
~ - ·	BE SEMI	GUJARAT TECHNOLOGICAL UNIVERSITY ESTER- 1 st /2 nd (NEW SYLLABUS) EXAMINATION – SUMMER 2015		
Subj	ect Code	: 2110001 Date:17/06/2015		
Subj	ect Name	e: Chemistry		
Time	: 10.30aı	m-01.00pm Total Marks: 70		
Instru				
		tion No. 1 is compulsory. Attempt any four out of remaining Six questions.		
		e suitable assumptions wherever necessary. The second results the right indicate full marks.		
Q.1	(a)	Objective Question (MCQ)		
V.1	(u)		07	
	1.	If nitrogen if present in the given sample than in its Lessaigne's solution it will converted in to		
		(a) Sodium nitrate (b) Lead Chloride		
		(c) Sodium cyanide (d) Lead nitrite		
	2.	Oxidation test is usually carried out in		
		(a) Shell Tube (b) Bomb Tube		
		(c) Test tube (d) Hydrogen tube		
	3.	Which of the following compound will give green flame during Beilstein Test?		
		(a) Benzene (b) Toluene		
		(c) Chloroform (d) All of these		
	4.	'Similia Similibus' is the principle of		
	7.	(a) Crystallization (b) Vaporization		
		(c) Sublimation (d) Distillation		
	5.	Which of the following compound will show sublimation		
	٥.	(a) Benzene (b) Toluene		
		(c) Naphthalene (d) All of these		
	6.	Identify the sweeter solution of sugar prepared in water.		
	•	(a) 1 m sugar solution (b) 1 M sugar solution		
		(c) 0.5 m sugar solution (d) 0.5 M sugar solution		
	7.	For Chromatography identify the incorrect statement.		
		(a) The eluate is a mobile phase leaving the column.		
		(b) The eluent is the solvent that carries the analyte		
		(c) The analyte is the stationary phase made by silica.		
		(d) The solute refers to the sample components in partition chromatography.		
		(a) The solute felers to the sample components in partition emonatography.		
	(b)		07	
	1.	Identify the right pair of novalak resin's constituents.		
		(a) Benzene + Formaldehyde (b) Phenol + Acetal		
		(c) Phenol + Methanal (d) Toluene + Formaldehyde		
	2.	Chemically fats and oils are		
		(a) Bases (b) Strong bases		
	2	(c) Acids (d) Esters		
	3.	Identify the wrong pair (a) Condenser – Distillation (b) Funnel – Sublimation		
		(c) Vacuum Flask –Filtration (d) All of these		

	4.	What piece of laboratory equipment is bet suitable to measure accurate volume of liquid?	
		(a) Accurate funnel (b) Graduated cylinder	
		(c) Erlenmeyer Flask (d) Conical flask	
	5.	Which method is useful for the separation of 1°, 2° and 3° amines?	
		(a) Hinsberg method (b) Hoffmann Method	
	_	(c) Both a and b (d) none of these	
	6.	Which of the following is not so complicated for in process analysis? (a) GC (b) HPLC (c) TLC (d) GC-MS	
	7.	(a) GC (b) HPLC (c) TLC (d) GC-MS Whipped cream is an example oftype of colloid.	
	7.	(a) Aerosol (b) Gel (c)Sol (d) Foam	
		OR	
Q1	(a)	Answer the following	
	1.	Homogeneous mixture of solute and solvent is known as	07
		A Solution B Steam	
		C Liquid D Gas	
	2.	An acidic solution has its pH	
		A Equal to 7 B Less than 7	
		C More than 7 D Any one of this	
	3.	A sample of water that does not give lather with soap solution is	
		A Soft water B Hard water	
		C Acidic water D Alkaline water	
		pH+pOH=	
	4.	\mathbf{A} 10 \mathbf{B} 12	
		C 14 D 16	
		A long chain of is called polymer.	
	5.	A Isomers B Optical isomers	
		C Geometrical isomers D Monomers	
		A substance when heated directly get converted from solid to gaseous state	
	6.	without appearance of liquid state. This phenomenon is known	
		as	
		A Sublimation B Distillation	
		C Crystallization D None of these	
		is the technique to separate two liquid compounds.	
	7.	A Sublimation B Distillation	
		C Crystallization D Polymerization	
	(b)	Answer the following.	07
	1.	A normal solution is that when equivalent weight of a compound is dissolved into	
		intolitre of solution. A 10 B 100	
		C 1 D 1000	
	2.	If a solution is having its pH=10.It is a solution	
		in a solution is having no pri-10.1t is a solution	

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Explain any four types of bonds with one example of each.

Write classification, properties and uses of Insulators.

What are glass fibers? Write Uses of glass fibers.

(c)

(a)

(b)

(c)

Q.7

What is PMMA? Give important applications of Viscose Rayon and PMMA.

07

03

04

07