VITHALBHAI PATEL & RAJRATNA P.T. PATEL SCIENCE COLLEGE VALLABII VIDHYA NAGAR CHEMICAL PROCESS PRINCIPALES & ENGINEERING MATERIALS

S.Y. B.Sc. SEM: III INT	ERNAL TEST DATE: 5/10)/2019
SUB: INDUSTRIAL CHEMISTRY	TIME: 3:00 pm to 4:10	*
SUB CODE: US03CICH021	MAR	KS: 25
Q.1 Multiple choice question.		[05]
1) For expressing trace amount of impuriti	ies in the systemunit is	
preferable.		
(a) Percentag	(b) parts per million (ppm)	
(c) Molarity.	(d) Normality.	P Sci
2) The capacity of an object to do work is.		- merezel
(a) Work.	(b) Energy.	1011
(c) Heat.	(d) Force.	RARY
3) Combustion reaction are always		18/
(a) Exothermic.	(b) Endothermic.	
(c) Bond formulation.	(d) None of these.	Nagal
4) Material science refers particular to		Standard Line (Annual Standard
	c) Polymer science	
(b)Chemical science	(d) All of above	
5) Common glass, is called:		
(a). Soda glass (b). flint glass	(c). hard glass (d). Pyrex glass.	
Q2. Prove that for gaseous mixture Pressure $\%$ =Volume $\%$ = Mole $\%$.		[05]
OR		
Q2. Write a short note on purge operation.		[05]
Q3. Differentiate between Physical Adsorption and Chemical Adsorption. OR		[05]
Q3. The dry bulb temperature and wet bulb temperature of air were found to be 29°C and 18°C		and 18 ⁰ C
respectively .The barometer reading was 750mmHg.Calculate		[05]
i) Absolute Humidity ii) Molal Humidity iii) % Relative saturation.		
iv) Humid Volume v) Humid H		
	Vapor pressure at $18^{\circ}C = 15.5$ mm Hg	2.
Q4. How engineering materials are classif		[05]
<u> </u>	OR	
Q4. write a note on (a) silica bricks (b) Fir	e bricks.	[05]
Q5. Write physical properties of metals.		11
OR		
Q5. Write about types of cement.		[05]
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