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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Mid Semester Examination - March 2019

Subject Name: Engineering Chemistry Max Marks: 20 Course: -: First Year B. Tech(Group- A Chem, Mech, Civil) Sem: II Subject Code: BTBS 202

Date:- 12/03/2019

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NaCl H ₂ O	For the given system degree of freedom is,	a) Zero Varient b) Divarient c) Invarient d) Both a & c	Attempt the following Questions	n 6. All questions are compulsory	5. Assume suitable data if required
	/C03			(Level/CO)	

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Figures to the right indicate full marks. Use of non programmable calculator is allowed.

Neat and labeled diagram must be drawn whenever necessary.

Do not write anything on question paper

Instructions to the students:

Duration:- 1 Hr.

www.FirstRanker.com Phase diagram of sulphur system has.....triple point(s). Exhausted zeolite can be regenerated by using a) 1 b) 2 c) 3 d) 4 Solid b) 3 c) 2 d) 1 Solution Vapour 00 C03

Sodium Zeolite can be represented as a) HCl b) NaOH c) NaCl d) All of these Si₂O.Al₂O₃, xNa₂O.yH₂O
 d) Na₂O.Al₂O₃, xSiO₂,yH₂O a) Ca₂O.Si₂O₃.xNa₂O.yH₂O b) Mg₂O.Al₂O₃.xSiO₂.yH₂O

Hardness of water is usually expressed in equivalent with a) Ca(OH)₂
 b) CaCl₂
 c) CaO
 d) CaCO₃

What is condensed phase rule? When it is applied? Solve Any Two of the following.

(B) Ion exchange method is more advantageous than zeolite method, give your Define the term Phase, Invariant system and temporary hardness review.

Solve Any One of the following

How we determine hardness of water by EDTA method? What happen when and triple points in it. What are the advantages of phase rule? Draw neat labeled phase diagram for water system and explain areas, curves hard water is used for industrial applications?

*** End ***

CO1, CO3

CO1

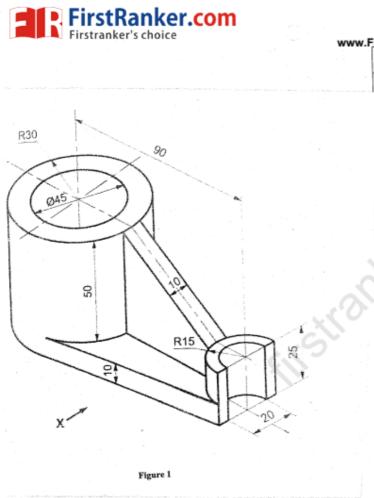
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CO1

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Q.2 Draw front view, top view and right hand side view of the object shown in figure 1 below: (Use first angle method of projection)	thickness and applications.	 Explain various types of lines with their illustrations, 	70 mm diameter	Super scribe a regular octagon about a given circle of	diameter 80 mm.	 Inscribe a regular heptagon inside a given circle of 	Q.1 Solve any two out of the following:		Instructions to the Students: 1. Assume suitable data if necessary and state it clearly. 2. Figures to the right indicate full marks. 3. Retain all construction lines.	Max Marks: 20 Date:- Duration:-1 Hr.	Subject Name: Engineering Graphics Subject Code: ME104	Course: F.Y.B. Tech Sem: II	Mid Semester Examination - March 2019	DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
C04		C01		C01,2		CO1,2		(Level/CO)			4		¥ ,	ONERE
16				:			5x2=10	Marks						