## DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

## Mid Semester Examination – March 2019

Q. 3 A  $\mathbf{\Xi}$ Q.2 0  $\mathbf{B}$ www.FirstRanker.com ك www.FirstRanker.com Subject Name: Engineering Chemistry 'n 2 6. All questions are compulsory Assume suitable data if required Figures to the right indicate full marks. Use of non programmable calculator is allowed Instructions to the students: Duration: 1 Hr. Max Marks: Course: - : First Year B. Tech(Group- A Chem, Mech, Civil) S Attempt the following Questions Neat and labeled diagram must be drawn whenever necessary. Ion exchange method is more advantageous than zeolite method, give your Solve Any Two of the following. 9 and triple points in it. What are the advantages of phase rule? How we determine hardness of water by EDTA method? What happen when Define the term Phase, Invariant system and temporary hardness review. What is condensed phase rule? When it is applied? hard water is used for industrial applications? Solve Any One of the following l. Do not write anything on question paper Draw neat labeled phase diagram for water system and explain areas, curves For the given system degree of freedom is, If degree of freedom for any system is zero, the system is said to be Hardness of water is usually expressed in equivalent with Sodium Zeolite can be represented as Exhausted zeolite can be regenerated by using Phase diagram of sulphur system has.....triple point(s). a 三 <u>a</u> Zero Varient b) Divarient HC! NaCl  $Ca(OH)_2$ Si<sub>2</sub>O.Al<sub>2</sub>O<sub>3</sub>. xNa<sub>2</sub>O.yH<sub>2</sub>O Ca<sub>2</sub>O.Si<sub>2</sub>O<sub>3</sub>.xNa<sub>2</sub>O.yH<sub>2</sub>O 20 <u>5</u> <u>5</u> b) NaOH c) NaCl 2 w C b) CaCl<sub>2</sub> င Solution w NaCl ٩ c) CaO d) CaCO<sub>3</sub> ڡ b) Mg<sub>2</sub>O.Al<sub>2</sub>O<sub>3</sub>.xSiO<sub>2</sub>.yH<sub>2</sub>O d) Na<sub>2</sub>O.Al<sub>2</sub>O<sub>3</sub>, xSiO<sub>2</sub>,yH<sub>2</sub>O c) Invarient d) Both a & c d) All of these Vapour  $H_2O$ Sem: II Subject Code: BTBS 202 Date:- 12/03/2019 (Level/CO) /CO1, CO3 ·-/C01 /C03 /C03 /CO1 (CO1 /C01 /C03 /C03 /C03 /C01

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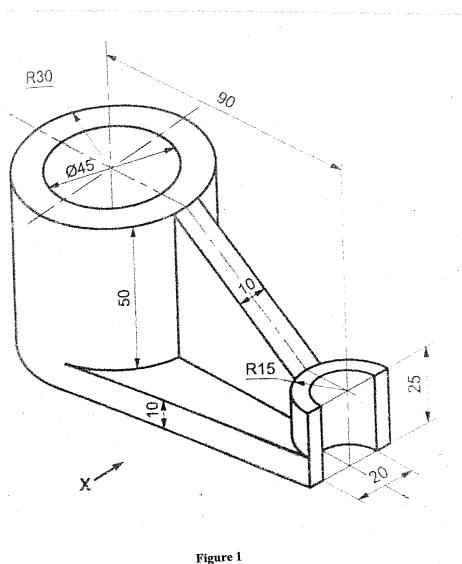
Marks

6

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	Draw front view, top view and right hand side view of the object shown in figure 1 below:- (Use first angle method of projection)	3. Explain various types of lines with their illustrations, thickness and applications.	<ol> <li>Super scribe a regular octagon about a given circle of</li> <li>mm diameter</li> </ol>	<ol> <li>Inscribe a regular heptagon inside a given circle of diameter 80 mm.</li> </ol>	Solve any two out of the following:		<ul> <li>Instructions to the Students:</li> <li>1. Assume suitable data if necessary and state it clearly.</li> <li>2. Figures to the right indicate full marks.</li> <li>3. Retain all construction lines.</li> </ul>	Course: F.Y.B. Tech Sem: II  Subject Name: Engineering Graphics  Max Marks: 20  Date:-  Duration:- 1 Hr.	DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE Mid Semester Examination – March 2019
	C04	C01	CO1,2	C01,2		(Level/CO)		04	ONERE
	10		:		5x2=10	Marks			