fuel.

7.

Melting point of Benzoic acid...... $^0$ C

Seat 1	No.: _	Enrolment No	·		
	BE- S	GUJARAT TECHNOLOGICAL UNIVERSEMESTER 1st / 2nd EXAMINATION (NEW SYLLABUS) - S		- 2017	
-		Code: 2110001 Da	Date:30/05/2017  Total Marks: 70		
Tim		30 PM to 05:00 PM			
	1. 2.	Question No. 1 is compulsory. Attempt any four out of remaining Si Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	x questions	•	
Q.1	(a)	Objective Question (MCQ)	07	MARKS	
	1.	The number of coordinate bonds formed by EDTA with metal cation (a) 4 (b) 5 (c) 6 (d) 7			
	2.	Galvanizing is the process of coating iron or steel sheets with a coat of  (a) Cu (b) Zn (c) Pb (d) Brass	thin		
	3.	Sooty flame suggests presence of (a) Aromatic compound (b) Aliphatic (c) Alicyclic (d)All			
	4.	Bhopal Gas tragedy occured in the year (a) 1982 (b) 1984 (c) 1986 (d) 1988			
	5.	Monomer of Polyester fibre is (a) Dimethyl terephthalate			
		(b) Diethylene terphthalate			
		(c) Ethylene glycol			
		(d) Diethylene glycol terphthalate			
	6.	In fractional distillation of petroleum fuel oil is obtained at around (a) $110^{0}$ c (b) $220^{0}$ c (c) $330^{0}$ c (d) $440^{0}$ c	nd		
	7.	Which acid is present in lemon?  (a).Malic acid (b) Citric acid			
	<b>(b)</b>	(c). lactic acid (d). Tartaric acid	07		
	1.	is responsible for temporary hardness of water.			
	2.	is the chemical formula of rust.	1		
	3.	catalyst supports better polymerization of unsaturated dienes and trienes.	1		
	4. 5	Dutch Metal contains Cu% & Zn%			
	5. 6	ppm =mg/L.	mid		

Q.2	(a) (b)	Explain how enzymes are useful in industries?  Discuss manufacture of ethyl alcohol from molasses by fermentation?	03 04
	(c)	Write a short note on Acid – Base Conductometric titration?	07
Q.3	(a) (b)	What is biogas? How it can be prepared in a village?  Discuss the manufacturing of portland cement. Draw diagrams where ever required.	03 04
	(c)	Explain what changes in properties of raw rubber occur on its vulcanization. Draw diagrams to make clear the structural changes?	07
Q.4	(a)	Write a short note on standards of cements.	03
	<b>(b)</b>	Define fibre? List various types of fibres and differentiate them on	04
	(c)	the basis of their physical properties.  Discuss the classification, properties and application of abrasives.	07
Q.5	(a)	What do you mean by alloy? Illustrate with suitable examples the purpose of alloy making.	03
	<b>(b)</b>	White a short note on	
	<b>(b)</b>	Write a short note on: (1) Annealing (2) Hardening	04
	(c)		04
Q.6	` ,	(1) Annealing (2) Hardening  What is corrosion? Differentiate chemical and electrochemical	
Q.6	(c) (a)	(1) Annealing (2) Hardening  What is corrosion? Differentiate chemical and electrochemical corrosion  Define fuel. What are the characteristics of good fuel?  What do you mean by molecular formula of a compound?	07
Q.6 Q.7	(c) (a) (b)	(1) Annealing (2) Hardening  What is corrosion? Differentiate chemical and electrochemical corrosion  Define fuel. What are the characteristics of good fuel?  What do you mean by molecular formula of a compound?  The empirical formula of the dibasic organic acid is CHO <sub>2</sub> . If its molecular weight is 90.2, what is its molecular formula.	07 03 04

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