GE-Con. 11283-16.

QP Code: 28521

Total Marks: 75 Duration: 2 hrs

NR.	(1)Question no. I is compulsory.	
	(4) Attempt any four questions from remaining six	
	(2) Attempt any rout questions from remaining of	Ć
	(3) Figures to the right indicate init marks.	N.
	(4) Assume suitable data if necessary.	3
	26	
(At.	(2) Attempt any four questions from remaining size. (3) Figures to the right indicate full marks. (4) Assume suitable data if necessary. wt: Mg= 24, H=1, C=12, O=16, Ca=40, Cl=35.5, S=32, N=14, Na=23, Al=27, Fe = 56). Attempt any 5. a) Explain condensation polymerization with an example. b) Define BOD and COD and give their significance. c) What are solid lubricants? Where are they used?	
(A = 27, Fe = 56).	
	AM 21,120 00).	
	, A	15
1.	Attempt any 5.	
	a) Explain condensation polymerization with an example.	
	b) Define BOD and COD and give their significance.	
	 a) Explain condensation polymerization with an example. b) Define BOD and COD and give their significance. c) What are solid lubricants? Where are they used? d) Write a note on plain carbon steels. 	
	d) Write a note on plain carpon siecis.	
	e) How are nanomaterials different from conventional materials?	
	f) Differentiate between conventional and non conventional energy source	es.
	g) Find the acid value of a used oil sample whose 7ml required 3.8ml of	
	g) Find the acid value of a used on sample whose 7 in required 5.5 in of	
	N/20 KOH during titration(Density of oil =0.88). State whether oil is	
	proper for lubrication or not.	
	G	
2	a)) Calculate lime (90%) and soda (80%) pure required for softening one	3
	million litres of water containing following impurities-	
	The state of the s	
	i) $Mg(HCO_3)_2 = 14.6 \text{ mg/litre}$ ii) $Mg(NO_3)_2 = 29.6 \text{mg/litre}$	
	iii) $Ca(HCO_3)_2 = 8.1 \text{ mg/litre}$ iv) $HCl = 3.65 \text{ mg/litre}$	6
	v) $Na_2SO_4 = 4.5 \text{ mg/litre}$	U
	b) What is compounding of plastics? Give the different additives of	
	plastics with examples.	5
	pieseres with	
	NV-ita a meta an galar flat plate collector	4
	c) while a note on solar hat plate concetor.	
	S DMALA and Dung S	6
-3	. a) Give the preparation, properties and uses of Pivilvia and Buna-5.	U
	5	
	Z'X	
	plastics with examples. c) Write a note on solar flat plate collector. a) Give the preparation, properties and uses of PMMA and Buna-S.	
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