		[Time: 2Hours]		[ Marks:60]
	Please che	ck whether you have got the ri	ght question pape	
(	<ul><li>(3) All questions carry ed</li><li>(4) Figures to the right in</li></ul>	nestions from Q. 2 to Q. 6. qual marks.	Cl = 35.5, Ba =137	3. 18 Still 19 95 1
1.	Answer any five:	old soft,	HE POOL	15
ai m	b) Write a note on 'C c) What is biodiesel' d) What are the cons e) Give composition f) What is stress cor g) 2.48 gm of coal required 16.5 ml that are the conditions for each of reactions, explain the medium.	? Write transesterification reaction tituents of composites? Give further, properties and uses of Wood's rosion? Explain with the help of sample was subjected to Kjelo 2 N H <sub>2</sub> SO <sub>4</sub> . Calculate the amount electrochemical corrosion? With nechanism of electrochemical corrosion.	on. nctions of matrix phemetal. Example. dahl's method and at of nitrogen. the help of diagram prrosion of iron in no	liberated ammonia  n eutral 6
		cracking with the help of neat any of toluene with respect to the for AlCl <sub>3</sub>		. 5
	$C_6H_6 + CH_3Cl$			4
1% mi co b) Gi pr c) Ex	S, S = 1.5%, moisture = 1 nimum weight and volumal. ve the conventional and all inciple of green chemistry	s affecting rate of corrosion: -	lioxide. Calculate the plete combustion of arbaryl and explain	ne E 10 kg of 6
	nat are shape memory allo lications.	ys? Explain with the help of exa	ample. Give their pr	operties and 6
	plain the impressed current th the help of diagrams	nt method used for protecting the	e series of undergro	ound pipes 5
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c) Give an account of sandwich panels with the help of diagram	4
5. a) What is refining of petroleum? What are the steps involved in it? Explain with the help of neat and labelled diagram.	6
<ul><li>b) Give classification of plain carbon steels. What is the function of Carbon in steel?</li><li>c) Describe the process of hot compaction with the help of neat and labelled diagram.</li></ul>	4
<ul><li>6. a) i) Define paint and list the constituents of paint.</li><li>ii) Distinguish between anodic and cathodic coating.</li></ul>	4
b) A gaseous fuel has following composition: $H_2 = 8\%$ , $C_2H_2 = 39\%$ , $C_4H_{10} = 18\%$ $O_2 = 4\%$ , $CO = 12\%$ , $H_2O = 5\%$ , $C_2H_4 = 9\%$ and rest is ash. Calculate the volume and weight of air required for the complete combustion of $1\text{m}^3$ gas.	5
c) What is powder metallurgy? Explain the process of atomization with the help of neat and	1

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