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1	No. o	f Questions: 8] [Total No. of Printed Page	s : 2
		[4261]-3	of Engo
		10/	RARY
		ENGINEERING CHEMISTRY	TRY Ja
		(2012 Course)	und W
Time	: 2 H	lours] [Max. Marks	: 50
Instru	ictions		
		(1) Black figures to the right indicate full marks.	
		(2) Assume suitable data, if necessary.	
		(3) Neat diagrams must be drawn wherever necessary.	
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Q.1)	(A)	Explain the Methods of Internal Treatment of Boiler Feed Water.	[06]
	(B)	Explain different types of Electronic Transitions that occur is an organic molecule after absorbing UV Radiations.	n [06]
		OR	
Q.2)	(A)	Explain any six principles of Green Chemistry.	[06]
	(B)	Explain the pH metric titration of mixture of weak acid - stron acid against standard alkali, giving chemical reactions, proceduration curve and calculations.	
Q.3)	(A)	Explain Bulk and Emulsion Polymerization Techniques.	[06]
	(B)	What is Biodiesel? Explain the reaction with conditions involved. Give advantages and disadvantages.	[06]
		OR	
Q.4)	(A)	Explain Kevlar and FRP with respect to their properties ar applications.	[06]
	(B)	Explain Proximate Analysis of Coal.	[06]
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Q.5)	(A)	Explain the structure of Fullerene. How does it influence it properties and applications ?	[05]
	(B)	Describe the use of sodium alanate for Hydrogen Storage.	[04]
	(C)	Explain the Storage of Hydrogen in compressed and liquified form. Explain difficulties in the said Storage Systems.	[04]
		OR	
Q.6)	(A)	Explain the Isotopes of Carbon and Hydrogen.	[05]
	(B)	Explain the steam reforming of Methane to obtain Hydrogen Gas.	[04]
	(C)	Discuss the types of CNT with respect to their structure. Give their applications.	[04]
Q.7)	(A)	Explain the Cathodic Protection of a Underground Structure. Give the principle involved.	[05]
	(B)	How does the nature of environment influence the rate of Corrosion? Explain any four factors with examples.	[04]
	(C)	Discuss various steps involved in Powder Coating.	[04]
		OR	
Q.8)	(A)	Explain the Mechanism of Dry Corrosion. Discuss the Oxidation Corrosion in case of Mg, Cr, Mo.	[05]
	(B)	How is Steel Galvanized? Explain the process with the help of a flow diagram.	[04]
	(C)	Give conditions under which the Wet Corrosion Occurs. Explain the Mechanism of Wet Corrosion by Hydrogen Evolution with suitable example.	[04]
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