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6. 7. 8. 9.	What is trip Classify fue Define ignit	ple point?
7. 8. 9.	Classify fue Define ignit	els.
8. 9.	Define ignit	
9.		ition temperature.
	What is a n	
10.	CERTAIN CONTRACTOR	nuclear chain reaction?
	What is the	e voltage generated by H_2 - O_2 fuel cell?
		PART B — (5 × 16 = 80 marks)
11.		Calculate total hardness of the given sample water which contains the following in ppm.
		$CaCl_2 = 111; CaSO_4 = 136; MgCl_2 = 95 \text{ and } MgCO_3 = 144.$ (8)
		How are Sludge and Scale formed? Write briefly about their prevention and disadvantages. (8)
		Or
	(b) (i)	Describe ion exchange process and explain the reactions involved in
	i i	it. (8)
		Write notes on
		(1) Phosphate conditioning,
		(Z) Sodilim alliminate conditioning
		(2) Sodium aluminate conditioning. (8)

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12.	(a)	(i)	Discuss various factors which affect the adsorption of gas on a so adsorbent.	lid (8)
		(ii)	Deduce the expression for Langmuir adsorption isotherm. Menti	an en
			Or	
	(b)	(i)	Explain	
			(1) Catalytic poisoning,	
			(2) Catalytic promoters.	(8)
		(ii)	Derive Michaelis-Menten equation.	(8)
13	. (a)	(i)	Write notes on any two types of heat treatment of steel.	(8)
		(ii)	Mention the composition and uses of	
			(1) Nichrome,	
			(2) Stainless steel.	(8)
			Or	
	(b)	(i)	State phase rule and explain the terms involved in it.	(8)
		(ii)	Draw and label the phase diagram of lead-silver system. Expla	(Section)
14.	. (a)	(i)	How is proximate analysis of coal carried out? Mention significance.	its (8)
		(ii)	Explain	
			(1) Octane number and	
			(2) Cetane number.	(8)
			How can they be improved?	
			Or	
	(b)	(i)	How is the analysis of flue gas done? Explain with a neat diagra	m. (8)
		(ii)	What is calorific value? What are its types? Explain.	(8)
15	. (a)	(i)	Distinguish between nuclear fission and nuclear fusion.	(8)
		(ii)	Explain the essential parts of a nuclear reactor with the help of diagram.	f a
1			Or	
	(b)	(i)	Describe the Ni-Cd cell with reactions.	(8)
		(ii)	Construct a lead acid battery and explain.	(8)
			2 80	03