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	Sub		tal Marks: 80] (
	(	1) Question No. 1 is compulsory.  (2) Attempt any Three questions from remaining.  (3) Figures to the right indicate full marks.	
	1.	Answer the following:-  (a) Explain condenser in thermal power plant.  (b) What are the advantages and disadvantages of concentrating collector	[20]
100		over flat plate collector?  (c) Explain hydrology with respect to the selection of site for hydroelectric p  (d) Explain advantages and disadvantages of boiling water reactor.	oower plant.
	2.	<ul><li>(a) Explain generation of electricity from bio-fuels.</li><li>(b) Explain boiler interlocks and safety standards</li></ul>	[10] [10]
	3.	<ul> <li>(a) Derive the expression for energy extraction from the wind using Betz Model.</li> <li>(b) Give the classification of water turbines and explain impulse turbine in desired.</li> </ul>	[10] letail. [10]
	4.		[10] [10]
	5.	(a) Explain steam power plant with neat diagram.  (b) Explain Solar PV technology with neat diagram.	[10] [10]
	6.	<ul> <li>Write Short note on:- (Any Two)</li> <li>(a) Classification of energy resources.</li> <li>(b) Horizontal Axis Wind Turbine</li> </ul>	[20]
	57.48.52	(c) Role of DCS in power plants.	

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