DIPLOMA IN MECHANICAL ENGINEERING (DME)

Term-End Examination

June, 2013

	BME-058 : POWER PLANT ENGINEERING					
Time: 3 hours Maximum Ma						
Not		Answer any seven questions. Assume if any data nissing.	is			
1.	(a)	Describe briefly various types of hydroelectric power plant and also discuss the advantages and disadvantages.	5			
	(b)	Discuss briefly the process of nuclear fission and nuclear fusion.	5			
2.	(a)	Describe briefly various types of boilers and also discuss the advantages and disadvantages.	5			
	(b)	Describe and give the layout of LAMONT Boiler.	5			
3.	pow	npare the steam power plant with nuclear are plant and briefly describe the Health ards.	0			

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4.	(a)	Describe briefly the economics of selection of power plant.	5
	(b)	Explain briefly the different methods of calculating depreciation cost.	5
5.	Explain the different elements in a diesel power plant.		
6.	Describe and explain the various injection schemes used in diesel power plant.		
7.	(a)	Describe the advantage of steam turbine over reciprocating engine.	5
	(b)	What are the requirements of good condensing system?	5
8.	(a)	What is nuclear binding energy and explain briefly using a nuclear binding energy curve.	5
	(b)	Discuss briefly the different types of nuclear material.	5
9.	What is cooling tower? Describe the different types of cooling towers.		10
10.	Describe in detail with the help of a sketch the functioning of a turbo shaft engines.		