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BME-058

DIPLOMA IN MECHANICAL ENGINEERING (DME)

Term-End Examination ☐☐←1☐ June, 2016

BME-058 : POWER PLANT ENGINEERING						
Tin	ne : 2	hours	Maximum Marks : 70			
Not		Answer any seven questi qual marks.	ons. All questions carr	ッ		
1.	nuc	pare the steam power lear power plant and b th hazards.	riefly describe the	-		
2.		cribe and explain the diffeel power plant.		0		
3.	₹Ç.	Describe and give the boiler. Classify various types discuss their relative disadvantages.	of boilers and also	-5		
	dies	el power plant. Describe and give the loiler. Classify various types discuss their relative	layout of La Mont of boilers and also e advantages and			

5.	(a)	Explain any two methods of calculating depreciation cost.	
	(b)	Describe briefly the economics of selection of power plant.	5+5
6.		at is a cooling tower? Describe the different es of cooling towers.	10
7.		scribe the theory of operation of Pelton bine and Francis turbine.	10
8.	(a)	Draw the P-V diagram of Brayton cycle and explain the working principle of an open cycle gas turbine.	
	(b)	Explain Gas turbine cycle with intercooling.	5+5
9.	(a)	Describe briefly the various types of hydroelectric power plants.	
	(b)	Discuss the advantages and disadvantages of a hydroelectric power plant.	5+5

Explain any two injection systems used in a

10

4.

diesel power plant.

- 10. (a) What is nuclear binding energy? Explain briefly using a nuclear binding energy curve.
 - (b) Describe the advantages and disadvantages of BWR. 5+5