SE-EE. SemIII (old) PPE

02/12/2014.

(OLD COURSE)

QP Code :12271

		(3 Hours) [Total Marks : 1	UU
N.B :	(2) Question no.1 is compulsory.) Attempt any four from the remaining questions.	
	(3) Figures to right indicates full marks.	
1.	(a)	Define following terms: (i) Demand factor (ii) Load factor (iii) Diversity factor	5
		(iv) Utilization factor (v) Plant capacity factor.	5
	(b) (c) (d)	Differentiate between nuclear fission and nuclear fusion. Explain in brief, the load curve and load duration curve. Explain Base load and peak load plants.	5 5 5
2.	(a) (b)	Explain in brief, the classification of hydro electric power plant. Explain the following terms:— (i) Hydrograp	10 10
		(ii) Run off (iii) Rain fall (iv) Flow duration curve.	
3.	(a) (b)	Explain the ash handling plant in steam power plant. What is mean by green house effect?	10 10
4.	(a) (b)	Explain the fluidized bed combustion process. What are the different types of electrical tariff, explain any four.	10 10
5.	(a) (b)	Explain in detail the components of nuclear power plant. Explain the pressurized water reactor (PWR) along with the advantages and disadvantages.	10 10
6.	(a)	What are the advantages and disadvantages of diesel power plant. Mention the application of diesel power plant.	10
	(b)	Draw and explain the general layout of gas turbine power plant.	10
7.	Atte	empt any two: (a) Acid rain and acid snow (b) Geothermal energy (c) Solar active and passive collectors.	20