B.Tech 6th Semester (EE) F-Scheme Examination, May-2017

ELECTRIC POWER GENERATION

Paper-EE-318-F

Time allowed: 3 hours]			[Maximum marks: 100] 1 (Section-A) is compulsory.		
Note: (i) Question No. 1					
	(ii)	Attempt four mo	re questions from remaining		

Section-A

one question from each section.

four section (B, C, D & E) by selecting at least

1.	(a)	What do	you	mear	by Elec	tric	Powe
		Generation ?					
	(b)	Explain	the	term	Reserves	in	Powe

- Generation. Some deserves in Power of the Generation of the term Reserves in Power of the Generation.
- (c) What do you mean by geothermal sources of energy?
- (d) What do you mean by Electric Energy Conservation?

Section-B

2. What do you mean by energy sources? Discuss the recent trends of Power Generation in India. 20

3. What do you mean by interconnected generation of Power Plants? Discuss the advantages of interconnected Power Plants.

Section-C

4. Explain the terms:

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- (i) Load forecasting
- (ii) Load duration curves
- (iii) Base load Power Plants
- (iv) Peak load Power Plants
- 5. Explain the significance of load factor, plant factor and capacity factor in the Power Generation Planning.

Section-D

- 6. Draw and explain the schematic diagram and working of Nuclear Power Plant.
- 7. Explain the construction and working of MHD system.

Section-E

8. Differentiate between Energy Management and Energy Audit. Explain the advantages of both in Power System.

9. What do you mean by Cogeneration? Explain the advantages of Energy Efficient Motors for the energy conservation. How it is achieved with the help of energy efficient motors?