B.E. Sixth Semester (Electrical & Electronics Engineering) (CGS)

10395 : Elective-II : Power Supply Systems 6 FEEP 05 / 6 FEEX 05 / 6 FEEL 05 / 6 FEEE 05

P. Pages: 2	
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Time: Three Hours



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Max. Marks: 80

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1.	Note	2. 3. 4. 5. 6. 7.	All question carry equal marks. Answer three question from section A and three question from section. Due credit will be given to neatness and adequate dimensions. Assume suitable data wherever necessary. Diagrams and equations should be given wherever necessary. Illustrate your answer necessary with the help of neat sketches. Use of pen Blue/Black ink/refill only for writing the answer book. site selection criteria for the thermal power plant.	n B.	7
	b)	Explain	working of "Fire Tube Boiler" with neat diagram.		7
			OR		
2.	a)	Explain	Coal Handling Plant & Ash Handing Plant in a thermal plant. Explain	working.	7
	b)	Explain	the importance of transmission system in structure of power system.		7
3.	a)	Explain	in detail the working of gas turbine.		7
	b)	Explain	radioactivity and hazards of nuclear fuel.		6
			OR		
4.	a)	What ar	e the material used coolant? Explain its importance in Nuclear reactor.		7
	b)	What is	combined cycle generation in Gas-turbine operated power plant? Expl	ain.	6
5.	a)	What is	hydro-graph? Explain it in detail.		7
	b)	Explain	working of Surge Tank.		6
			OR		
6.	a)	Explain	the difference in working of a hydro-power plant & pumped storage p	ower plant.	7
	b)	Explain	Coordinated operation of Hydro-Nuclear power plant with help of loa	d curves.	6
7.	a)	Explain	importance and use of current transformer & potential transformer in	a substation.	7
	b)	Explain	what is substation earthing?		7
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OR

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8.	a)	Explain working of circuit breaker & isolator.	7
	. b)	Explain importance of lightning arrester.	7
9.	a)	Draw a single line diagram of primary and secondary distribution system showing voltage levels, loads. Explain.	7
	b)	Explain with neat diagram term feeder & distributor.	6
		OR	
10.	a)	Explain type of conductors used in distribution system.	7
	b)	Give difference between radial and ring main distributor.	6
11.	a)	What are different types of internal wiring? Explain conduit wiring with neat diagram.	7
	b)	List out different types of lighting connections & connecting & disconnecting devices.	6
		OR	
12.	a)	Explain earthing practices for the domestic wiring.	7
	b)	What is fuse? Explain its working.	6

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