B.E/B.TECH, M.E/M.TECH, MBA, MCA, POLYTECHNIC & SCHOOLS

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		Reg. No. :		
	Question	n Paper Code	: 20869	
В	B.E./B.Tech. DEGR	EE EXAMINATION	S, APRIL/MAY 2022.	
	Т	hird/Seventh Semes	ter	
	N	fechanical Engineer	ing	
		POWER PLANT EN	The order of the state of the s	
		ectrical and Electron		
	(common to 22	(Regulations 2017)		
Time: Three	houre	(Regulations 2011)		10
Time : Timee		***	Maximum : 10	o marks
		Answer ALL question		
		$TA - (10 \times 2 = 20 \text{ m})$		
	meant by boiler d			
	hort notes on coger			
		gram of Brayton cycle		(d).
		d breeding in reactor	f gas turbine power plan	its.
		d power plant reacto		
	water hammer?	- Parity Parity Today	at a staff (add world)	(a) Dr
8. What is	fuel cell?			
9. Define d	lemand factor.			
10. What ar	e the pollutants co	omes out from the coa	al fired power plant?	
	PART	ΓB — (5 × 13 = 65 m	arks)	
an desir				
		sketch the working o he function of major	f a thermal electric pow circuits in it.	er plant
		Or		
(b) (i)	Describe the wo		with a neat diagram.	(6)
(ii)		es on Super critical I		(7)

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12.	(a)	Explain the essential components of the diesel power plant with neat diagram.
		Or
	(b)	Explain the working of open cycle and closed cycle Gas turbine power plant and discuss its advantages and disadvantages.
13.	(a)	Draw and explain the construction and working principle of Boiling Water Reactor.
		Or
	(b)	Explain CANDU reactor with a neat sketch.
14.	(a)	(i) Explain the construction and working of Geo thermal power plant. (8)
		(ii) Discuss the different system used for generating power using geothermal energy. (5)
		Or emotional sent
	(b)	(i) Explain the Solar thermal central receiver system. (8)
		(ii) Sketch and explain the two pool/basin tidal power plant. (5)
15.	(a)	Explain the nuclear waste disposal methods.
		Or
	(b)	Write short notes on load curves and load duration curves and write the procedure for Plotting the Load Duration Curve.
		PART C — (1 × 15 = 15 marks)
16.	(a)	Show that there is an improvement in cycle thermal efficiency by the use of regenerator in the gas turbine with circuit diagram and T-s diagram. (15)
		Or
	(b)	 (i) Explain the factors to be considered while selecting the site of a hydro power plant. (7)
		(ii) Illustrate the pumped storage plant and explain with a sketch. (8)
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