Code: 15ME63B

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VI Semester Diploma Examination, March/April-2022

POWER PLANT ENGINEERING

Tin	ne: 3 Hours]	[Max. Marks : 100
Inst	ructions: (i) Answer any six questions from Part – A. (ii) Answer any seven questions from Part – B.	
	PART – A	
1.	List any five factors considered for location of Power Plants.	5
2.	Explain Load curve.	. 5
3.	List any three advantages and any two disadvantages of Hydro-E	Electric Power Plant. 5
4.	Explain briefly the principle of over feed stoker (firing).	, , , , 5
5.	List any five types of Hydro-electric Power Plants.	5
6.	List any three advantages and any two disadvantages of Wind Po	ower Plant. 5
7.	List any five applications of Solar cell.	5
8.	List any five social issues related to Power Plant.	5
9.	Explain about Acid rain and Acid snow.	5
	1 of 2	[Turn over

15 M	E63B	2 of 2	2287
		PART – B	
10.	(a) (b)	Sketch and explain the Storage River Plant. Sketch and explain the Pumped Storage Plant.	5 5
11.	Sket	ch and explain the layout of Hydro-Electric Power Plant.	10
12.	Sket	ch and explain the general layout of Thermal Power Plant.	10
13.	Expl	ain with a neat sketch, Electro Static Precipitator (ESP) system.	. 10
14.	Exp	lain with a neat sketch Boiling Water Reactor (BWR).	10
15.	Ske	tch and explain open cycle Gas Turbine Power Plant.	10
16.	(a)	List any three advantages and any two disadvantages of Gas Turbine Po	wer 5
	(b)	Explain the various methods involved in disposing of nuclear wastes.	5
17.	Exp	plain with a block diagram of Wind Energy Conversion System (WECS).	10
18.	Ske	tch and explain layout of Diesel Power Plant.	10
19.	(a)	Explain briefly pollution by Thermal Power Plants.	5
	(b)	Explain briefly about Green House Effect.	5



