

Coue	•	T		\mathbb{L}_{λ}	4	.	
		-	4339		٠.		÷

Register				1,11		(1,1,1,1,1)
Number					64.4	

III Semester Diploma Examination, Nov./Dec.-2018

ELECTRICAL POWER GENERATION

Tim	ne : 3 Hours]	[Max. Marks : 100
Note	e: (i) Answer any six questions from Part-A. Each question	on carries 5 marks.
	(ii) Answer any seven questions from Part-B. Each que	stion carries 10 marks.
	PART – A	BETA CONSOLE!
1.	State the importance of Electrical Power Generation.	.
		Diploma - [All Branche
2.	List the advantages and disadvantages of Thermal Power Pla	nt. 3+ 5
e.		en de la companya de
3.	Compare thermal power plant with Nuclear Power Plant.	5 Dialogo (0.1)
		Diploma Question Papers [201: 19]
4.	Explain with block diagram of Solar Cell.	Beta Console Education 5
		MARK Directors
5.	Compare Horizontal axis & vertical axis wind turbine genera	tors. 5
•		a di katata daj Balandara
6.	Explain the construction and working of Heaving Float type	wave energy conversion
·	device.	5
7.	Compare movable and fixed dome type Biogas plants.	
8.	Define fuel cell. Give the classification of fuel cells.	1
-		
9.	List the effects of low power factor on power plants.	5
	1 of 2	[Turn over

PART - B

10.		v the general layout of Hydro power plant and explain the function of any six ponents.	10
11.	(a)	List the factors to be considered for selection of site for Thermal power plant.	5
	(b)	Explain with block diagram of stand alone Solar PV.	5
(,			
12.	(a)	Draw the schematic diagram of Diesel power plant and label the parts.	5
	(b)	List the advantages and disadvantages of Gas Turbine power plant.	5
13.	(a)	Explain the environmental impacts of Solar PV system on Environment.	5
	(b)	Write the merits and Demerits of Solar PV cells.	5
178	•	Diploma - [All Br	anches]
14.	(a)	Explain the origin of Global and Local winds. Beta Console Education [3-]	5 .
	(b)	What are the factors affecting distribution of wind energy on earth surface?	5
15.	(a)	Explain with neat diagram construction of Horizontal axis with turbine.	7 ers [2015-
,	(b)	List any three factors to be considered for selection of site for wind power plant.	3
16.	(a)	Explain with neat diagram Single Basin type tidal power plant.	4
	(b)	Explain with Block diagram open cycle OTEC plants.	6
17.	(a)	List the advantages and disadvantages of Biogas plants.	4
	(b)	Explain with Block diagram Municipal Solid Waste (MSW) to energy incineration plant.	6
18.	(a)	Explain the working principle and operation of Alkalyne Fuel Cell (AFC) with a neat Diagram.	7
.	(b)	List the applications of fuel cells.	3
19.	(a)	Explain with block diagram construction and working of PV-Wind Hybrid system.	6
	(b)	Explain the losses of fuel cells.	4
	(~)		