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BOARD DIPLOMA EXAMINATION, (C-16)

MARCH/APRIL-2021

DME - FIFTH SEMESTER EXAMINATION

ENERGY SOURCES AND POWER PLANT ENGINEERING

Time : 3 hours]

[Total Marks: 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.

- (2) Each question carries three marks.
- (3) Answers should be brief and straight to the point and shall not exceed five simple sentences.
- **1.** What do you mean by renewable source of energy and what is its necessity?
- 2. Write the working principle of photo voltaic cell.
- **3.** Define solar energy. Explain solar radiation.
- 4. List out the advantages and disadvantages of wind energy.
- 5. What are the applications of fuel cells?
- **6.** List out the different types of bio-gas plants.
- **7.** State the factors to be considered for selection of site for tidal power plant.
- 8. What are the functions of condenser in a steam power plant?
- **9.** State the advantages of pulverized coal.
- 10. How are nuclear reactors classified?

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		* PART—B	
Instruc	ctions :	(1) Answer any five questions.	
		(2) Each question carries ten marks.	
		(3) Answers should be comprehensive and criterion fo valuation is the content but not the length of the answer	
11.	Explain	the working of focusing collector with a neat sketch.	
12.	Describe	e the following with neat sketches :	
	(a) Sola	ar still	
	(b) Sola	ar dryer.	
13.		e the constructions and working of a vertical axis wind mill neat sketch.	
14.	Explain sketch.	the working of Bacon's high pressure fuel with a legible	
15.	Draw a : principle	neat sketch of a fixed dome digester and explain its working e.	
16.	Explain sketch.	single basin and double basin arrangements with a neat	
17.	With lin	ne sketches explain any two coal handling equipments.	
18.	Draw a	neat sketch of BWR-power plant and explain its working.	
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