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BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL-2021

DME - FIFTH SEMESTER EXAMINATION

HEAT POWER ENGINEERING - II

Time : 3 hours]

PART—A

[Total Marks : 80

4×5=20

Instructions: (1) Answer *any* **five** questions.

- (2) Each question carries four marks.
- (3) Answers should be brief and straight to the point and shall not exceed five simple sentences.
- **1.** Define dryness fraction.
- 2. Write short note on Calorimeter.
- **3.** What is the function of Boiler?
- **4.** List all the boiler mountings.
- 5. What are the types of Nozzles?
- 6. Define the term Nozzle.
- 7. Define Steam turbine.
- 8. Explain the working principle of Steam turbine.
- 9. Define Steam condenser.
- **10.** Write the classifications of steam condenser.

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- **Instructions :** (1) Answer *any* **four** questions.
 - (2) Each question carries fifteen marks.
 - (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.
 - **11.** Write short notes on the following :
 - (a) Wet steam
 - (b) Dry steam
 - (c) Super-heated steam
 - **12.** Explain the working of Cochran boiler with a neat sketch.
 - **13.** Explain any two boiler mountings with neat sketches.
 - **14.** List various types of Steam Nozzles and explain one of them briefly.
 - **15.** *(a)* Write an expression for velocity of steam at exit of nozzle and state each term in it.
 - (b) Differentiate between Jet condenser and Surface condenser.
 - **16.** Explain the working principle of De-Laval turbine with a neat sketch.
 - **17.** Explain any one method of governing of steam turbine with appropriate diagram.
 - **18.** Explain the working of Evaporative condenser with a neat sketch.

