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BOARD DIPLOMA EXAMINATION, (C-16) OCT/NOV-2018 DAEI—FIFTH SEMESTER EXAMINATION

INSTRUMENTATION PROCESS INDUSTRIES

Time: 3 hours] [Total Marks4

PART—A

- **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. List various power generation method
 - 2. State the importance of measurement and instrumentation in power plant.
 - **3.** List types of sensors used in thermal power plant.
 - **4.** Mention the turbine shaft vibration.
 - Define petroleum refinery.
 - List basic steps in refinery process.
 - List raw materials in iron steel plant(ISP).
 - Draw flow scheme of steel production.
 - **9.** Define the term pulp.
- **10.** List the types of pulping process.

PART-B $10 \times 5 = 50$

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

- (2) Each questions carries **ten** marks.
- (3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.
- 11. Explain the general layout of Thermal power plant with diagram.
- 12. Draw the block diagram of boiler process in thermal power plant and explain each block.
- 13. Explain a typical combustion system of a boiler with diagram.
- 14. Draw the general layout of a petro chemical plant and explain each
- 15. (a) Explain Alkalization unit operation.
 - (b) Explain measurement of molten metal level.
- **16.** Explain the working of blast furnace with diagram.
- 17. Explain the block diagram of chemical pulping process.
- A. A. M. E.J. J. P. 18. Explain the graphic displays and alarms in PPP.