

4708

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH /APRIL-2019

DAEIE-SIXTH SEMESTER EXAMINATION

INSTRUMENTATION IN PROCESS INDUSTRIES

Time: 3 Hours

Max. Marks: 80

PART-A

10X3=30M

Instructions : 1) Answer **all** questions.
2) Each question carries **Three** marks.
3) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1) List any three power generation methods.
- 2) Mention the function of condenser in thermal power plant.
- 3) Define catalytic cracking.
- 4) List any three units in petrochemical plant.
- 5) Define alkalization.
- 6) List any three types of furnaces used in iron and steel plant.
- 7) Draw the diagram of electric furnace.
- 8) List any three physical properties of paper.
- 9) List any three raw materials used for making paper.
- 10) Draw the diagram of moisture analyser used in pulp and paper plant.

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PART-B

5X10=50M

Instructions: 1) Answer any **five** questions.
2) Each question carries **ten** marks.
3) The answer should be comprehensive and the criteria for valuation is content but not the length of the answer.

- 11) a) Explain the measurement of level in a boiler. 5M
b) Explain the flow measurement of feed water. 5M
- 12) Explain the building blocks of boiler process in thermal power plant.
- 13) Explain the measurement of speed and vibration of turbine.
- 14) Explain the measurement of flow and pressure in petrochemical industries.
- 15) Explain the working of blast furnace with a diagram.
- 16) a) Draw the layout of iron and steel plant. 5M
b) Explain the measurement of level of molten steel. 5M
- 17) a) Draw the general layout of pulp and paper plant. 6M
b) Explain pulp bleaching. 4M
- 18) Explain the wet end and dry end operations in making paper.

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