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4708**BOARD DIPLOMA EXAMINATION, (C-14)****JUNE-2019****DAEI-SIXTH SEMESTER EXAMINATION****INSTRUMENTATION IN PROCESS INDUSTRIES**

Time: 3 Hours]

[Max. Marks : 80

PART -A**10X3=30M**

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

- 1) List any three safety measures in boiler control.
- 2) State the principle of power generation in thermal power plant.
- 3) Define alkalization.
- 4) Define catalytic cracking.
- 5) What are the bi products of crude oil.
- 6) Write different types of furnaces used in iron and steel plant.
- 7) How to measure thickness of iron and steel products.
- 8) List any three raw materials for making paper.
- 9) Define pulp bleaching.
- 10) Write any three steps in pulp production.

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PART-B

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5X10=50M

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

- 11) (a) Explain the measurement of speed, vibration of turbine. 5M
(b) Draw the general layout of thermal power plant. 5M
- 12) Explain the measurement of level, pressure and temperature of the boiler.
- 13) Explain the working of condenser with diagram.
- 14) Explain the process of thermal cracking with diagram.
- 15) Explain the manufacturing process of iron and steel based on the layout.
- 16) Explain the working of oxygen furnace with diagram.
- 17) Explain graphic displays and alarms in Pulp and Paper plant.
- 18) Explain wet end and dry end operations in making paper.

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