



C14-AEI-405

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BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—2018
DAEIE—FOURTH SEMESTER EXAMINATION
PROCESS INSTRUMENTATION-II

Time : 3 Hours]

[Total Marks : 80

PART—A

3×10=30

Instruction : (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. Draw a legible sketch of potentiometric pressure transducer.
2. List the types of seat type flow meters.
3. List the methods of liquid level measurement.
4. Define Density.
5. State the principle of flame sensor.
6. State the principle of membrane diaphragm.
7. Draw the diagram of venturitube.
8. State the principle of resistance type level indicator.
9. Draw the diagram of falling ball viscometer.
10. Draw the diagram of hydraulic load cell.

PART—B

10×5=50

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

11. Explain pressure calibration by using Dead weight tester.
12. Explain the principle of Positive displacement type of flow meter with a legible sketch.
13. Explain the principle of Ultrasonic level gauge, with a legible sketch.
14. Explain the principle of Capillary viscometer with a legible sketch.
15. Explain the principle of Pneumatic load cell with a neat sketch.
16. Explain the principle of Strain gauge pressure transducer with a legible sketch.
17. Explain the principle of Rotameter with a neat sketch.
18. (a) Explain the principle of Corrugated diaphragm with a neat sketch. 5
(b) Explain the principle of Electromagnetic flowmeter. 5

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