

SECTION-B

- Note:** Short answer type questions. Attempt any six questions out of Eight questions. $(6 \times 5 = 30)$
- Q.11 Differentiate between lever safety valve and dead weight safety valve.
- Q.12 Describe with a neat sketch the working of a surface condenser.
- Q.13 Explain the working of single stage reciprocating air compressor.
- Q.14 Give any five differences between fire tube boiler and water tube boiler
- Q.15 Describe with neat sketch working principle of four stroke petrol engine.
- Q.16 Explain concept of perpetual motion machine of second kind.
- Q.17 Explain the significance of entropy in thermodynamic system.
- Q.18 Differentiate between reciprocating and rotary Compressor.

SECTION-C

- Note:** Long answer type questions. Attempt any one question out of two questions. $(10 \times 1 = 10)$
- Q.19 Describe general energy equation for a steady flow process.
- Q.20 What is an Otto cycle ? Drive an expression for its efficiency.

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Roll No.

DVOC (Level 4)

Sem 2nd / Refrigeration & Air Conditioning

Subject : Basics of Thermodynamics

Time : 2 Hrs.

M.M. : 50

SECTION-A

- Note:** Very short answer type questions . Attempt all ten questions $(10 \times 1 = 10)$

- Q.1 Define compression ratio.
- Q.2 What is BDC?
- Q.3 Define steam turbine ?
- Q.4 Give any two examples of closed system.
- Q.5 Define Otto cycle.
- Q.6 Give any two examples of externally fired boilers.
- Q.7 Define air compressor.
- Q.8 Define C. O . P of refrigerator.
- Q.9 Define impulse turbine.
- Q.10 Define lubrication.

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