

SECTION-B

Note: Short answer type questions. Attempt any six questions out of Eight questions. (6x5=30)

- Q.11 Explain the functions of blow off cock and feed check valve.
- Q.12 State and explain second law of thermodynamics.
- Q.13 Explain construction of water tube boiler.
- Q.14 What are the functions of a condenser?
- Q.15 Write the functions of lubricant.
- Q.16 What is steam turbine? Mention the main parts of steam turbine.
- Q.17 Explain concept of perpetual motion machine of first kind.
- Q.18 Write the advantages of economiser.

SECTION-C

Note: Long answer type questions. Attempt any one questions out of two questions. (10x1=10)

- Q.19 Differentiate between a heat engine, refrigerator and heat pump with neat sketch.
- Q.20 Derive an expression with p-v and t-s diagram for Diesel cycle.

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Roll No.

Level 4, 2nd Sem. / Trade- (DVOC) Refrigeration & Air Conditioning

Subject : Basics of Thermodynamics

Time : 2 Hrs.

M.M. : 50

SECTION-A

Note: Very short answer questions. Attempt all ten questions.

(10x1=10)

(Course Outcome/CO)

- Q.1 Define clearance volume.
- Q.2 What is TDC?
- Q.3 What is isolated system?
- Q.4 Define isentropic process.
- Q.5 Define enthalpy.
- Q.6 Name the types of boilers.
- Q.7 Diesel cycle is constant _____ cycle.
- Q.8 What is nozzle?
- Q.9 First law of thermodynamics is based on _____.
- Q.10 Define Surface Condenser