

## **SECTION-B**

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

- Q.11 What is steam boiler? How are they classified?
- Q.12 Write a short note on steam turbine.
- Q.13 Define condenser. Enlist the main applications of condenser.
- Q.14 Describe inter cooling and give importance of inter cooling in two stage compression.
- Q.15 Enlist the main parts of an IC engine and write their function.
- Q.16 Explain the applicability of first law of thermodynamics for cyclic and non cyclical process.
- Q.17 Explain first law of thermodynamics. Also state the limitations of this law.
- Q.18 Describe the concept of heat engine, heat pump and refrigerator.

## **SECTION-C**

**Note:** Long answer type questions. Attempt any one question out of two questions. (1x10=10)

- Q.19 Explain the working of two stroke cylinder engine mechanism with its important parts.
- Q.20 What are the processes involved in a carnot cycle? Derive an expression for the thermal efficiency of carnot cycle.

No. of Printed Pages : 2

Roll No. ....

188443

**Level 4, 2nd Sem / (DVOC) Ref and Air cond.**  
**Subject : Basics of Thermodynamics**

Time : 2 Hrs.

M.M. : 50

## **SECTION-A**

**Note:** Very short answer type questions. All questions are compulsory. (10x1=10)

- Q.1 Give types of steam generators.
- Q.2 Define equivalent evaporation.
- Q.3 Write the name of two steam condensers.
- Q.4 What is air compressor?
- Q.5 Define stroke length.
- Q.6 Define swept volume.
- Q.7 Define isolated system.
- Q.8 Give the statement of first law of thermodynamics.
- Q.9 Define work.
- Q.10 Describe entropy.

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