

SECTION-B

- Q2 Explain the construction and working of Water tube boilers giving a neat sketch.
- Q3 Explain the functions of following major components of boiler system: Feed water Heaters, Fuel Heater, Deaerators, Pumps, Combustion Air Blowers, Flue, Economizer, Steam Traps and Piping.
- Q4 Explain the working of two stroke diesel engine giving appropriate examples.
- Q5 Explain the mechanical details of single stage and two stage reciprocating compressors.
- Q6 Describe the working of forced draft cooling towers with the help of a neat sketch.

SECTION-C

- Q7 Describe the components of vapour compression refrigeration system and derive the expression for COP of vapour compression refrigeration system.
- Q8 a) Describe the construction and working carburetor giving a sketch.
b) Discuss the functions of various types of impeller blade shapes used in centrifugal compressors.
- Q9 a) Explain the construction and working of various components of chemical plant sewage system.
b) Describe various boiler mountings and accessories giving their functions.