

SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT AND GRAMOTHAN JAIPUR
I-Year -B.Tech I-Semester
Assignment-2
Sub: Basic Mechanical Engineering

- Q.1 Write the statements of second law of thermodynamics.
- Q.2 Define open and close system.
- Q.3 What is IP, BP and mean effective pressure in case of IC engine?
- Q.4 What is the meaning of COP in refrigeration?
- Q.5 Draw a neat and labeled diagram of steam power plant.
- Q.6 Explain construction and working of Gas turbine power plant with their neat sketch.
- Q.7 Draw a neat and labeled diagram of Hydro-Electric power plant.
- Q.8 Write the meaning of priming and cavitation in centrifugal pump.
- Q.9 Explain construction and working of centrifugal pump.
- Q.10 Define the Compression ratio, clearance volume, swept volume and stroke in IC Engine.
- Q.11 Explain construction and working of vapor absorption refrigeration system with their neat sketch.
- Q.12 Write differences between fire tube and water tube boiler.
- Q.13 Write differences between two stroke and four stroke engine.
- Q.14 Write differences between petrol and diesel engine.
- Q.15 Explain construction and working of 4 stroke diesel engine.