

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.