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B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV /DEC 2011

MECHANICAL ENGINEERING BRANCH

SIXTH SEMSTER

ME 382 – THERMAL ENGINEERING – II

(REGULATIONS 2004)

Time: 3 hrs

Max Mark: 100

(Use of steam table and Refrigeration table permitted)

Answer ALL Questions

Part – A (10 x 2 = 20 Marks)

- 1 Write the expressions for the velocity and flow through the nozzle?
2. What are the different forms of steam nozzle?
3. Define volumetric efficiency of a compressor.
4. Why inter-cooling is necessary in multi-stage compression?
5. Define the term by-pass factor used for cooling or heating coil.
6. What are the required properties of ideal refrigerant?
7. Draw the p-v.and T-s diagram of a Rankine cycle.
8. List the Accessories used in the boilers.
9. Define the term cogeneration.
10. What are the thermodynamic advantages of such plant?