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B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APR /MAY 2011

MECHANICAL ENGINEERING BRANCH

FIFTH SEMESTER

ME 9302 – THERMAL ENGINEERING – II

(REGULATIONS 2008)

Time: 3 hr

Max Mark: 100

(Use of steam table and Refrigeration table permitted)

Answer ALL Questions

Part – A (10 x 2 = 20 Mark)

1. What is the function of fusible plug?
2. Differentiate between fire tube and water tube boiler.
3. Explain why the nozzles are made convergent – divergent?
4. What is the effect of friction in a steam nozzle?
5. Define the term degree of reaction.
6. Distinguish between impulse and reaction turbine.
7. Write any three waste heat recovery systems.
8. List the thermodynamic advantages of cogeneration plant.
9. Define the term "Air-conditioning".
10. Draw the schematic layout of vapor compression refrigeration system.