

Code: 9A02403

R09

B.Tech II Year II Semester (R09) Supplementary Examinations December/January 2014/2015

**GENERATION OF ELECTRIC POWER**

(Electrical & Electronics Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 Discuss the advantages and disadvantages of a nuclear plant as compared to other conventional power plants.
- 2 Explain about:
  - (a) Solar distillation.
  - (b) Solar cooling.
  - (c) Solar drying.
- 3 Draw the line diagram of a thermal power station showing various parts.
- 4 Describe the main consideration in selecting a site for wind generation.
- 5 Explain the constructional detail and working of KVIC digester.
- 6
  - (a) What are the main hurdles in the development of tidal power plants?
  - (b) Explain how the waves are formed.
- 7 The load on the main supply system is 1000 kW at p.f. of 0.8 lagging. What must be the kVA rating of the phase advancing plant which takes leading current at a power factor 0.15 in order to raise the power factor of whole system to 1.0?
- 8 What do you understand by tariff? Discuss the objectives of tariff.

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