Code: 9A02403



Max. Marks: 70

B.Tech II Year II Semester (R09) Supplementary Examinations May/June 2016 **GENERATION OF ELECTRIC POWER**

Time: 3 hours

(Electrical & Electronics Engineering)

Answer any FIVE questions All questions carry equal marks

- 1 Enumerate and explain essential components of a nuclear reactor.
- 2 Briefly explain the role and potential of solar energy generation.
- 3 What are the types of fuels used in thermal power plants? Briefly discuss.
- (a) Explain the role and potential of wind energy option. 4 (b) Why is wind energy a renewable energy source? Mention its demerits as a source of energy.
- Explain the different parameters which affect the biogas generation 5
- Draw a schematic diagram of OTEC plant and point out the major differences with conventional 6 thermal power plant.
- How does high load factor reduce the variable load problems on the power station? (a) 7
 - (b) What is the effect of power factor on the cost of generation?
- 8 Give the basis for expressing the cost of electrical energy as a + b kW + c kwh and explain the NNNN FIFS factors on which a, b and c depend.
