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M.E./M.Tech., II Semester

Examination, June 2016

Appropriate Technology And Energy Conservation

Time: Three Hours

Maximum Marks: 70

Note: Attempt any five questions. All questions carry equal marks.

- 1. Explain fundamental aspects of appropriate technology. Is there a need for appropriate technology as a separate concept of technology?
- Define "Sustainable Development". What is the role of appropriate technology in "Sustainable Development"?
- Using appropriate technology give the compact and simple waste water disposal system for rural areas.
- Explain following related to appropriate technology:
 - Planning of rural roads.
 - Design aspects of rural roads.
 - Drainage problems of rural roads.
- Write a review of global situation of Energy production, Distribution and Utilization.

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6. En ist renewable and non-renewable sources of energy. What are present energy trends?

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Write a review on possibilities and adoptability of: 14

- Solar energy
- Wind energy
- Tidal energy

Write short notes on any four of the following: $4\times3\frac{1}{2}=14$

- Factors affecting energy budget in buildings
- Design of buildings for minimising energy
- Infiltration galleries
- Maintenance of rural roads
- Bio-gas plant
- Low energy materials

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