

Roll No.....

**MVCT-205****M.E./M.Tech. II Semester**

Examination, December 2017

**Appropriate Technology and Energy  
Conservation***Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions.  
ii) All questions carry equal marks.

1. Explain fundamental aspects of appropriate technology. Explain its role in present circumstances. 14
2. How locally available materials and construction techniques are useful for water supply schemes in rural areas. 14
3. a) Discuss the planning of rural roads. 7  
b) Briefly describe treatment and disposal of waste water. 7
4. Explain with sketch (all three) 14
  - a) Infiltration well
  - b) Infiltration galleries
  - c) Sanitary latrines
5. What are energy conservation techniques? Explain their role in rural areas. 14

6. a) Make a review of energy trends for renewable and non-renewable energy resources globally. 7  
b) State the suitability of wind energy utilisation in rural areas. 7
7. Write a review on possibilities and adoptability of: 14
  - a) Solar energy
  - b) Low energy materials
  - c) Tidal energy
8. Write short note on following (any two): 14
  - a) Design of building for minimising energy
  - b) Green building
  - c) Rural roads drainage problems
  - d) A review of global energy production

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