

Roll No

[2]

MVCT - 205
M.E./M.Tech., II Semester
Examination, December 2015

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 appropriate technology concept and its role in the present circumstances. 14
2. How locally available materials and construction techniques are useful for water supply schemes in rural areas. 14
3. What is meant by low energy materials? Enlist them. How their use control environment? 14
4. Explain with sketch followings: 14
 - a) Infiltration well
 - b) Infiltration galleries
 - c) Sanitary latrines
5. What are energy conservation techniques? Explain their role in rural areas. 14

6. What are different energy factors affecting energy budget in buildings and settlements? How buildings are designed for minimising energy? 14
7. a) What are different design and socio-economic aspects are considered for planning of rural roads? 7
b) Write in brief about: 7
 - i) Materials for rural roads
 - ii) Maintenance of rural roads
8. Write short notes on any four of the following: 14
 - a) Rural roads drainage problems
 - b) Bio-gas plant
 - c) A review of global energy production
 - d) Adoptability of solar energy
 - e) Green building
 - f) Energy trends

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