

Roll No

MVCT-205

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

Examination, December 2016

Appropriate Technology And Energy Conservation

Time : Three Hours

Maximum Marks : 70

- Note : i) Attempt any five questions.
ii) All questions carry equal marks.
iii) Draw neat diagrams wherever required.

1. a) What are appropriate technologies? Explain its role in present circumstances.
b) How planning of water supply system is done in rural areas? Discuss.
2. a) List and discuss specific problems and methods in Rural Water Supply and Treatment.
b) Briefly describe treatment and disposal of waste water.
3. a) Discuss the planning of rural roads.
b) Describe the materials for rural roads. Compare their characteristics.
4. a) Explain socio-economic aspects of rural roads.
b) Explain the Drainage problems in rural areas and their remedies.

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5. a) Explain the process of maintenance of rural roads.
b) Write a short note on energy production, distribution and utilisation in Indian context.
6. a) Make a review of energy trends for renewable and non-renewable energy resources globally.
b) Discuss how Solar Energy can be used in homes as alternate energy resource?
7. a) State the suitability of Wind Energy Utilisation in rural areas.
b) What are Low Energy Materials for construction of homes? Write their environmental benefits.
8. Write short note on following: (any two)
 - a) Biogas plants
 - b) Design of buildings for minimising energy
 - c) Design aspects of Rural Roads

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