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Roll No

MVCT/MBCT/MVCP-105

M.E./M.Tech., I Semester

Examination, December 2014

**Low Cost Building Material and Construction
Techniques**

Time : Three Hours

Maximum Marks : 70

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

1. Explain the basic concepts of low cost building materials and techniques adopted in Civil Engineering.
2. Describe the techniques of Rat- Trap Bond and Filler- Slab adopted in construction practices with sketches.
3. What are the advantages of precast stone masonry blocks? Explain the process of manufacturing.
4. Define ferrocement. Discuss with neat sketch the construction of prefabricated RC Ferrocement Shells.
5. Explain with sketches the materials used and the process for construction of low cost rural roads.

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6. Compare the cost of construction of roof in a room having dimensions 3 meter x 4 meter, if we provide:

- a) R.C.C. Conventional roof.
- b) R.C.C. Plank and Joist System.

Perform the cost analysis and explain the saving of materials achieved.

7. Write short note on:

- a) Waste Water Disposal System.
- b) Low cost sanitation for rural and urban areas.

8. Write short note on:

- a) Thatch roof.
- b) Non erodible Mud Plaster.
- c) R.C. Plank and Joists roof.

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