

Roll No .....

**MVCT/MBCT/MVCP-105**

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

Examination, June 2016

**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.  
iii) Assume suitable data, if found necessary.

1. Discuss with neat sketches Rat Trap Bond masonry work. 14
2. Write short notes on : 14
  - a) Precast funicular shells
  - b) Ferro-cement shells
3. Explain with sketches different types of low cost rural roads. 14
4. Explain production process of M.C.R. and improved country tiles with sketches. 14

5. Explain with sketches construction method of following roofs. 14
  - a) Precast L-Panel roof
  - b) Precast channel roof
6. Explain low cost sanitation for rural and urban areas. 14
7. Distinguish between : 14
  - a) Ferro cement and Ferro concrete
  - b) Destructive and Non-destructive testing of materials.
8. How industrial and agriculture waste can be used to make building materials? Enlist such type of building materials. Discuss application of these materials in detail. 14

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