

Roll No

MVCT/MBCT/MVCP-105**M.E./M.Tech., I Semester**

Examination, December 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 missing.

1. Enlist various low cost building construction materials. How will you analyse these materials at micro-structure level? 14
2. Define Admixtures and Additives. Discuss their individual role in design and production of concrete. 14
3. Explain following types of roofs: $4 \times 3\frac{1}{2} = 14$
 - a) Precast R.C Plank and Joists roof,
 - b) Precast channel roof,
 - c) Sisal fibre roof,
 - d) Thatch roof.
4. What are different types of fibres used in fibre Reinforced concrete? Discuss all type along with their advantages. 14
5. Explain with sketch the working of following machines. $2 \times 7 = 14$
 - a) Brick moulding machine.
 - b) Stabilized soil block making machine.

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6. Discuss in detail atleast Five components of ferrocement. 14
7. Explain low cost Sanitation for rural and urban areas. 14
8. Compare different low cost building materials and low cost construction techniques on the basis of cost analysis. 14

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