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[Total No. of Questions: 8]

[Total No. of Printed Pages :2]

Roll No.....

CE-104

M. Tech.(CTM)–I Sem. (Reg./Ex.)

Examination, March- 2021

**Low Cost Building Materials & Construction
Technology**

Time: Three Hours

Maximum Marks:70

Note: Attempt any five questions. (Each Question carries equal marks.)

- Q.4 Describe ferrocement discuss with neat sketch the construction of pre- fabricated RC ferrocement shell.
- Q.5 Discuss the following-
- (a) R.C. plank and joist roof.
 - (b) Thatch roof.
- Q.6 Discuss the following-
- (a) waste water disposal system.
 - (b) Low cast sanitation for rural and urban area.
- Q.7 (a) Explain with sketches the material used and the process for construction of low cast rural roads .
- (b) Explain low cost construction technology for building Water waste disposal system.
- Q.8 (a) Compare the different low cast material and construction technique on the basis of cast analysis.
- (b) Explain the procedure for preparing soil bricks .

- Q.1 (a) Explain the basic concept of low cost building materials and techniques adopted in civil engineering.
- (b) Write short note on Hollow concrete blocks
- Q.2 (a) Describe the technique of Rat-Trap bond and Filler slab adopted in construction practice with sketch.
- (b) Explain different types of bituminous materials.
- Q.3 (a) What is the advantage of precast stone masonry block? Explain the process of manufacturing.
- (b) What is fly ash? Explain the advantages of using fly ash in concrete