

No. of Printed Pages : 3

**ET-204(B)**

**B.Tech. Civil (Construction Management)/  
B.Tech. Civil (Water Resources Engineering)/  
BTCLEVI**

**Term-End Examination**

**00665**

**June, 2015**

**ET-204(B) : ENGINEERING MATERIALS**

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Attempt any **five** questions. All questions carry equal marks.*

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1. (a) Explain the properties of the following : 7
  - (i) Quick lime
  - (ii) Hydrated lime
- (b) What is gypsum plaster ? Discuss its classification. 7
2. (a) What is tar ? Explain the various grades of tar, giving respective uses. 7
- (b) Compare bitumen with tar. 7
3. (a) What is a bonding agent ? Give the properties and applications of acrylic based bonding agent. 7

- (b) What is a chemical resistant mortar ? What are the properties of resin type chemical resistant mortar ? Explain. 7
4. (a) What is Fibre Reinforced Concrete (FRC) ? Explain the properties and applications of FRC. 7
- (b) What are the desired properties of concrete ? 7
5. (a) Explain : 7
- (i) Cement – concrete flooring
- (ii) Terrazzo flooring
- (b) What do you understand by a steel flooring system ? 7
6. Explain the preparation and application of the following :  $4 \times 3 \frac{1}{2} = 14$
- (a) Mud phuska
- (b) Damp proofing
- (c) Epoxy resin
- (d) Super plasticizer
7. Explain the following forms of finish as practised in construction work :  $4 \times 3 \frac{1}{2} = 14$
- (a) Rough cast finish
- (b) Grit wash
- (c) Form work finish
- (d) Ceramic tiles
- Also give their respective advantages.

8. Write short notes on the following :

$$4 \times 3 \frac{1}{2} = 14$$

- (a) Straw board
  - (b) Plywood
  - (c) Lamp holder
  - (d) Cable rating
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