

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

Term-End Examination

00137 December, 2017

ET-204(B) : ENGINEERING MATERIALS

Time : 3 hours

Maximum Marks : 70

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

1. (a) Describe the classification of Gypsum Plaster.
(b) Explain the raw materials used for manufacture of cement. Also write their percentage content. 7+7
2. (a) Describe the functioning and uses of bituminous emulsion.
(b) Briefly discuss different types of cutback bitumen. 7+7
3. (a) Discuss three important applications of a ready-to-use adhesive in building construction.

- (b) Explain the functional requirement of floors. 7+7
4. (a) Define fibre reinforced concrete. Explain the properties of fresh fibre concrete.
- (b) What precautions should be taken while making a cement concrete floor topping? 7+7
5. (a) Discuss the important purposes for which admixtures are used in concrete.
- (b) What do you mean by a sandwich panel? Explain its uses. 7+7
6. (a) Describe different types of cable trunking accessories. Explain the functions of each.
- (b) Discuss the major advantages of using plastic sections over wood. 7+7
7. Write short notes on the following : $4 \times 3 \frac{1}{2}$
- (a) Grade of Concrete
- (b) Tests on Bitumen
- (c) PVC Flooring
- (d) Purpose of Painting

8. Differentiate between the following :

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

- (a) Bitumen and Tar
 - (b) Superplasticizers and Plasticizers
 - (c) Rock and Lake Asphalt
 - (d) Damp-proofing and Water-proofing
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