

III/SEM/CIVIL/2015 (W)

(2)

CIVIL ENGINEERING MATERIAL

Sub Code-CET 304

Full Marks : 70

Time : 3 hours

Answer any five questions

The figures in the right-hand margin indicate marks

- 1. (a) What is metamorphic rock? 2
- (b) Describe briefly the grading of aggregate. 5
- (c) What are the factors responsible for deterioration of concrete and how it can be prevented? 7
- 2. (a) What is meant by glazing? 2
- (b) Name the different clay products used in construction industries and explain briefly about one of them. 5
- (c) Describe major defects of timber with the help of neat sketches. 7
- 3. (a) What do you mean by curing? 2

- (b) Describe briefly the process of painting on new wood work. 5
- (c) Explain the term water-cement ratio. How it affects the strength of concrete? 7
- 4. (a) What is meant by modular brick? 2
- (b) Briefly explain the manufacturing process of plywood. 5
- (c) Describe briefly the methods of manufacture of cement. 7
- 5. (a) Differentiate between cast iron and wrought iron. 2
- (b) State the properties of good mortar. 5
- (c) What are the ingredients present in a distemper? Explain the process of distemping. 7
- 6. (a) Difference between terracotta and porcelain. 2
- (b) Briefly explain four uses of cast iron. 5
- (c) What are kiln burnt bricks? Describe briefly the process of kiln burnt bricks. 7

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(3)

7. (a) What is the role of solvent in a paint ? 2
- (b) What do you mean by soundness of cement ? 5
- (c) Briefly explain the process of repainting of old surface. 7

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