

Total No. of printed pages = 3

CT-301/Const. Materials/3rd Sem/2014/N

CONSTRUCTION MATERIALS

Full Marks – 70

Pass Marks – 28

Time – Three hours

The figures in the margin indicate full marks for the questions.

Answer question No.1 and any *four* from the rest.

1. Fill in the blanks : 10
- (i) Fine aggregates are known as
 - (ii) method is suitable for quarrying soft stratified rocks.
 - (iii) The standard size of bricks are
 - (iv) Fineness test is carried out to check of cement.
 - (v) Vicat apparatus is used to find of cement.
 - (vi) Strength decreases with in degree of workability in concrete.

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- (vii) With concrete goes on hardening thereby increasing in
- (viii) Driers are used as in vernishes.
- (ix) White distempers are made by mixing and
- (x) Natural rubber is obtained from and synthetic rubber from
2. (i) Define building stones and classify them according to their geological, physical and chemical formation. 11
- (ii) Describe water absorption and presence of soluble salts in bricks. 4
3. What should be an ideal composition of good brick earth and cement ? How does an excess of each ingredient affect the properties ? 15
4. (i) Define glass and its types with properties and uses. 9
- (ii) What is common tile and encaustic tile ? Discuss briefly the characteristics of a good tile. 6

5. (i) What do you understand by the terms curing, segregation and bleeding of concrete ? 5
- (ii) What are the basic ingredients of oil paints? Describe the functions of each ingredient. 10
6. (i) What is the difference between preservation and seasoning of timber ? 4
- (ii) What are the common defects of timber and describe the causes of the defects. 11
7. Write short notes on the following : 15
- (i) Clamp burning of bricks
- (ii) Continuous flare kiln
- (iii) Heat insulating material
- (iv) Composition of distempers
- (v) Diseases of timber.