

Total No. of printed pages = 5

END SEMESTER EXAMINATION, NOVEMBER-2018

Semester – 3rd

Subject Code : CT-301

CONSTRUCTION MATERIALS

Full Marks – 70

Pass Marks – 28

Time – Three hours

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

1. Answer all questions : 1×25=25

- (i) The minimum compressive strength of brick should not be less than _____ N/mm².
- (ii) Fat lime hardens due to the reaction with _____.
- (iii) Un-burnt bricks are also known as _____.
- (iv) Efflorescence occurs in brick is due to the presence of _____.

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- (v) Polyvinyl chlorides is an example of thermosetting plastic. (True/False)
- (vi) Quick lime is the purest form of lime. (True/False)
- (vii) First class bricks are well burnt brick. (True/False)
- (viii) Putty is a product from lime. (True/False)
- (ix) The maximum water absorption of a brick should not be more than _____ %.
- (x) The innermost part of the tree is known as _____.
- (xi) The material that facilitates spread of paint is known as _____.
- (xii) What is sand blasted glass?
- (xiii) Rocks formed by cooling of molten magma forced up through cracks in the earth's crust is known as _____.
- (xiv) Thermoplastics never undergo any chemical change when heated. (True/False)
- (xv) Knot in timber is form due to _____.

- (xvi) Cement paint can be applied on any surface. (True/False)
- (xvii) The fresh properties of cement mortar are workability and _____.
- (xviii) A viscous liquid derived from the destructive distillation of coal is known as _____.
- (xix) The paint which have special formulation for waterproofing and protection from environment is, _____.
- (xx) Cracks that are caused on the exterior surface of the stem by shrinkage due to weathering effect is known as _____.
- (xxi) The size of fine aggregates ranges from 4 mm to _____.
- (xxii) _____ is an example of pozzolanic material.
- (xxiii) The reaction between cement and water is known as _____.
- (xxiv) The red color in brick is due to the presence of _____ in soil.
- (xxv) The spiral distortion in timber where the ends twist in opposite directions is known as _____.

From question number 2 to 6, answer any *four*.

2. (a) What are the engineering properties of a good burnt clay brick ? 7
(b) What are adhesives and how are they classified ? 3
3. (a) What are the characteristics of a good paint ? 5
(b) What are the composition of distemper ? 5
4. (a) Define glass and its types with uses. 6
(b) What do you understand by seasoning of timber ? 4
5. (a) Explain how cement is manufactured. 8
(b) What do you understand by initial setting time of cement ? 2
6. (a) What are various types of tar ? List their application. 7
(b) What are cast iron and wrought iron ? 3

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(4)

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Question number 7 is compulsory.

7. Write note on any *one* of the following :
(a) Tiles
(b) Plywood.

5

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(5)

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