

Total no. of printed pages = 2

END SEMESTER/ RETEST EXAMINATION, 2020

Semester: 3rd

CONSTRUCTION MATERIALS

CT-301

FULL MARKS – 70

PASS MARKS – 28

TIME – THREE HOURS

The figure in the margin indicate full marks for the questions

- 1 Answer the following questions. 1 x 25 = 25**
- I. Lime obtained after calcination is known as _____.
- II. This defect observed as spongy swollen mass over the surface of burned bricks is called as _____.
- III. The maximum water absorption of a brick should not be more than _____ %
- IV. In order to bring down the overall cost, reduce weight and increase the durability of paint, _____ is used.
- (a) Base (b) Pigments
(c) Solvent (d) Adultrant
- V. Distemper is used to coat
- (a) External concrete surfaces (b) Interior surfaces not exposed to weather
(c) Wood work (d) Compound walls
- VI. The fresh properties of cement mortar are workability and _____.
- VII. A viscous liquid derived from the destructive distillation of coal is known as _____.
- VIII. Cracks that are caused on the exterior surface of the stem by shrinkage due to weathering effect is known as _____.
- IX. The reaction between cement and water is known as _____.
- X. The crudest form of iron is
- (a) Mild steel (b) Pig iron
(c) Wrought iron (d) Cast iron
- XI. Polyvinyl chlorides is an example of thermosetting plastic. True/False
- XII. Which of the following is not an objective of seasoning timber?
- (a) Reduction in shrinkage and warping (b) Reduction of weight
(c) Increase in strength and durability (d) Reduction of natural defects in timber
- XIII. Cement paint can be applied on any surface. True/False
- XIV. The rocks formed by cooling down of magma or molten material is called
- (a) Metamorphic rock (b) sedimentary rock
(c) Igneous rock (d) Stratified rock
- XV. The IS classification of bricks is based on
- (i) Compressive strength (ii) Water absorption
(iii) Dimensional tolerance
- Of the above
- (a) only (i) is correct (b) (i) and (ii) are correct
(c) (i) and (iii) are correct (d) (i), (ii) and (iii) are correct
- XVI. Plywood is specified by
- (a) Weight (b) Volume
(c) Thickness (d) Number of layers
- XVII. Bakelite is

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- (a) A semi-conductor (b) Incombustible
(c) Low resistant conductor (d) Highly inflammable
- XVIII. Hydraulic lime is obtained by
(a) Burning of kankar (b) Burning of lime stone
(c) Adding water to quick lime (d) All of the above
- XIX. The trunk of tree left after cutting all the branches is known as
(a) Plank (b) Log
(c) Wane wood (d) None of the above
- XX. Which of the following is unstratified?
(a) Sandstone (b) Limestone
(c) Shale (d) Granite
- XXI. Which of the following in timber is caused by fungus?
(a) Upsets (b) Fixiness
(c) Dry rot (d) Wet rot
- XXII. Sand is mixed with lime mortar to
(a) Improve strength (b) Reduce cost
(c) Reduce setting time (d) Prevent shrinkage
- XXIII. The accelerator added for the fusion of glass is
(a) Soda (b) Silica
(c) Lime (d) Nickel
- XXIV. The red color in brick is due to the presence of
(a) Lime (b) Silica
(c) Magnesia (d) Iron
- XXV. The main constituent of varnish is
(a) Turpentine oil (b) Petrol
(c) Resin (d) Solvent

From Question 2 to 6 Answer Any Four

- 2 (a) Write the characteristics of first class burnt brick. 07
(b) What do you understand by efflorescence in bricks? 03
- 3 (a) What are the characteristics of a good paint? 05
(b) Explain how an old wood surface is painted? 05
- 4 (a) Define glass and its types with uses. 05
(b) Differentiate between star shake and heart shake. 05
- 5 (a) Explain how cement is manufactured by dry process. 08
(b) What is kankar lime? 02
- 6 (a) What are the various types of tar? And list their applications. 06
(b) Differentiate between thermoplastic and thermosetting plastic 04

Answer Question No. 7 Compulsorily

- 7 Write note on any one of the following: 05
(a) Use of lime as building material
(b) Characteristics of good timber

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