

Total No. of printed pages = 5

RETEST EXAMINATION – 2019

Semester : 3rd

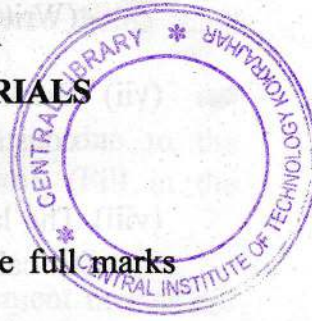
Subject Code : CT-301

CONSTRUCTION MATERIALS

Full Marks – 70

Time – Three hours

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



1. Answer *all* the questions as directed :

1×25=25

- (i) Metamorphic rocks are formed due to high temperature and _____. (Fill in the blanks)
- (ii) Fat lime hardens due to the reaction with _____. (Fill in the blanks)
- (iii) As raw materials calcareous rocks and _____ are used in manufacturing of cement. (Fill in the blanks)
- (iv) Excess free lime produced after hydration of cement is good for concrete. (Write true/false).

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- (v) Polyvinyl chlorides is an example of thermosetting plastic. (Write true/false)
- (vi) Hydraulic lime is the purest form of lime. (Write true/false)
- (vii) Brick should be pre-soaked in water for construction of masonry. (Write true/false)
- (viii) The layer found below the bark of the tree is called as _____. (Fill in the blanks)
- (ix) Trees used for making of structural elements belongs to _____ category. (Fill in the blanks)
- (x) As retarder, _____ is added while grinding of clinkers during manufacturing of cement. (Fill in the blanks)
- (xi) The material that facilitates spread of paint is known as _____. (Fill in the blanks)
- (xii) Lime mortar is generally made with _____. (Fill in the blanks)
- (xiii) The higher the w/c ratio, the more will be the strength of concrete. (Write true/false)



- (xiv) Thermoplastics never undergo any chemical change when heated. (Write true/false)
- (xv) Adhesives should have more cohesive strength than either of the surfaces being held together. (Write true/false)
- (xvi) The red colour in brick is due to the presence of _____ in soil. (Fill in the blanks)
- (xvii) The fresh properties of cement mortar are workability and _____. (Fill in the blanks)
- (xviii) Bitumen is a noncrystalline solid or viscous material derived from _____. (Fill in the blanks)
- (xix) Roof coverings, chains, ornamental iron works are made of _____ iron. (Fill in the blanks)
- (xx) Cracks that are caused on the exterior surface of the stem by shrinkage due to weathering effect is known as _____. (Fill in the blanks)
- (xxi) The most common type of glass used in doors and windows is _____. (Fill in the blanks)

(xxii) Flyash is an example of pozzolanic material.
(Write true/false)

(xxiii) Wall facing tiles used in bathrooms, kitchens, lavatories etc. is _____ tiles. (Fill in the blanks)

(xxiv) In order to reduce the overall cost and to increase the durability _____ is added to the paint. (Fill in the blanks)

(xxv) The term used for detachment of paint film from the surface is called _____. (Fill in the blanks)

2. Answer any *four* questions from (2 to 6)

(a) How rocks are classified and explain each of them. 7

(b) List out the various factors for selection of site for quarrying of stones. 3

3. (a) How are bricks classified? 7

(b) Briefly discuss the good properties of tiles. 3

4. (a) Explain the various processes of manufacturing of concrete. 8

(b) What do you understand by initial setting time of cement? 2

5. (a) Explain in details the various defects in timber. 7

(b) What do you understand by seasoning of timber? 3

(a) What are the various types of tar? List out their applications. 6

(b) What is pig iron? 2

(c) What is the difference between thermosetting and thermoplastic? 2

Question No.7 is compulsory

7. Write note on any *one* of the following : 5

(a) Plywood

(b) Application of distemper on a surface.

