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Roll No.

220724

2nd Sem / Civil
Subject : Construction Materials

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Specific Gravity for most of the building stones lies between (CO1)

- a) 1.5 to 20
- b) 2.0 to 2.5
- c) 2.5 to 3.0
- d) 3.0 to 3.5

Q.2 The most important purpose of frog in a brick is to (CO2)

- a) Reduce the weight of brick
- b) Emboss manufacturer's name
- c) Form keyed joint between brick and mortar
- d) Improve insulation by providing "Hollows"

Q.3 The ceramic materials are

- a) Inorganic substance
- b) Brittle
- c) Good thermal insulator
- d) All of the above

- Q.4 The extender are added to the paint body to (CO5)
- a) Reduce the viscosity
 - b) Give colour
 - c) Accelerate the process of drying
 - d) Increase the volume
- Q.5 Which of the following is the purest form of iron (CO6)

- a) Mild Steel
- b) Wrought Iron
- c) High Carbon Steel
- d) Cast Iron

- Q.6 Putty is made up of (CO7)
- a) Red lead and linseed oil
 - b) Powered chalk and raw linseed oil
 - c) Zinc oxide and boiled linseed oil
 - d) White lead and Turpentine

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 _____ is six times more powerful than gun powder. (CO1)

Q.8 The initial setting time of OPC should not be less than _____ minutes. (CO3)

Q.9 Annular rings represents _____ of the trees. (CO4)

Q.10 The constituent of a paint which imparts _____ to it, is called pigment. (CO5)

Q.11 The pipes consisting of polyvinyl chloride are known as _____ pipes. (CO7)

(1)

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(2)

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Q.12 _____ is a building material that consists of a fine, white-coloured powder. (CO7)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Write and describe any four characteristics of a good building stone.

Q.14 Define vitrified tile and write any six advantages of them.

Q.15 Describe the method of kiln seasoning of timber.

Q.16 Write a short note on laminated board.

Q.17 Describe the term "Covering Capacity of Paints".

Q.18 Mention the characteristics of aluminium as an important building material.

Q.19 Write a short note on HPL sheets.

Q.20 Write any eight applications of FRP in building industry.

Q.21 Write a short note on water proofing compounds used for underground storage tanks.

Q.22 Write the precautions to be taken while we have to store the cement at construction site godowns.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 a) Explain the process of burning of bricks in zig-zag kiln with the help of line diagram.

b) Describe the classification of burnt bricks used in construction works.

Q.24 a) Explain the procedure to be adopted for the determination of initial and final setting time of cement.

b) Explain the purposes and procedure of use of white cement in home construction.

Q.25 Explain the use of bamboo and bamboo based products to be used as eco-friendly building material.