

Q.22 Write the procedure of storage of cement at construction sites.

SECTION-D

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

Q.23 a) Describe the various constituents of good brick earth.

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

Q.24 a) Explain the procedure to be adopted for the determination of compressive strength of cement.

b) Explain the process of manufacturing of cement with the help of flow diagram.

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

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220724

Roll No.

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 Which of the following has more fire resisting characteristics?

- a) Granite
- b) Marble
- c) Compact sand stone
- d) Lime stone

Q.2 What is efflorescence ?

- a) Formation of white patches on the brick surface due to insoluble salts in the brick clay
- b) Impurities in the brick clay which show after burning
- c) Deformation of brick due to expose to rain
- d) Swelling of brick due to presence of carbonaceous matter and gas

- Q.3 The bonding in ceramics is
- Ionic
 - Metallic
 - Covalent
 - Partially Ionic and Partially Covalent
- Q.4 The chief ingredient of paint is
- Drier
 - Pigment
 - Oil
 - Alcohol
- Q.5 Percentage of carbon content in mild steel is
- Less than 0.25
 - Between 0.25 and 0.7
 - Between 0.7 and 1.5
 - Greater than 1.5
- Q.6 Gypsum consist of
- CO₂ and Calcium
 - CaSO₄ and H₂O
 - H₂S and CO₂
 - Lime and H₂O

SECTION-B

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

- Q.7 The process of taking out stones from natural rock bed is known as _____
- Q.8 The final setting time of OPC should not be more than _____ hours.

(2)

220724

- Q.9 _____ represents life or age of the trees.
- Q.10 Varnish provides uniform and pleasing appearance. (True/False)
- Q.11 _____ are organic substances which are prepared out of resin.
- Q.12 _____ No. of bricks are required for one cubic metre of masonry.

SECTION-C

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

- Q.13 Write any Five advantages of artificial stones.
- Q.14 Define PVC tile and write any five uses of them.
- Q.15 Write a short note on plywood.
- Q.16 Describe the method of water seasoning of timber.
- Q.17 Write any five characteristics of an ideal paint.
- Q.18 Mention any five used of non-ferrous metals which are commonly used in engineering structures.
- Q.19 Write a short note on ACP sheets.
- Q.20 Write any five properties of FRP used in building industry.
- Q.21 Write a short note on water proofing compounds used for roof toping.

(3)

220724