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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 The minimum strength of granite is CO-1

- a)  $800\text{kg/cm}^2$                       b)  $900\text{kg/cm}^2$
- c)  $1000\text{kg/cm}^2$                       d) none of the above

Q.2 The standard size of brick is CO-2

- a)  $200\text{mm} \times 100\text{mm} \times 100\text{mm}$
- b)  $190\text{mm} \times 190\text{mm} \times 40\text{mm}$
- c)  $190\text{mm} \times 190\text{mm} \times 90\text{mm}$
- d) None of the above

Q.3 Gypsum is added to increase the CO-4

- a) Initial setting time      b) Final setting time
- c) Ultimate strength      d) All of the above

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Q.4 Seasoning of timber is done to CO-5

- a) Minimize shrink, warp, split
- b) increase in strength
- c) Increase in durability
- d) All of the above

Q.5 Can ACP sheets UV rays resistant CO-8

- a) Yes                                      b) No
- c) Neither (a) nor (b)      d) None of the above

Q.6 Which of the following is ferrous metal? CO-7

- a) Copper                                      b) Aluminum
- c) Steel                                      d) None of the above

**SECTION-B**

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

Q.7 Alkalies and salt, if present in the brick earth, produce \_\_\_\_\_? CO-1

Q.8 For storing of cement, the platform should be raised \_\_\_\_\_ above the ground. CO-4

Q.9 Decay in timber is due to \_\_\_\_\_? CO-5

Q.10 The carbon content in High tension steel is \_\_\_\_\_? CO-7

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- Q.11 The ignition temperature of PVC wall panel is around \_\_\_\_\_? CO-8
- Q.12 Asbestos is \_\_\_\_\_ in structure. CO-9

### SECTION-C

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

- Q.13 Enlist any five qualities of good building stones. CO-1
- Q.14 Write five characteristics of brick as per BIS standards. CO-2
- Q.15 Describe size and weight of first and second class of bricks. CO-2
- Q.16 Enlist the various chemical constituents of ordinary Portland cement. CO-4
- Q.17 Name different types of preservations used for timber. Explain any one. CO-5
- Q.18 What are the characteristics of an ideal material. CO-6
- Q.19 Write a note on steel as building material. CO-7

- Q.20 Enlist any five advantages of HPL sheets. CO-8
- Q.21 Describe the properties of Eco-friendly building materials. CO-9
- Q.22 Explain commercial uses of asbestos. CO-9

### SECTION-D

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

- Q.23 Explain process of quarrying of stones by blasting and into effect on Environment. CO-1
- Q.24 Describe the name of various laboratory tests conducted on cement. Explain any one. CO-4
- Q.25 Explain the different types of water proofing material with their suitability. CO-9

(**Note:** Course outcome/CO is for office use only)