

Jharkhand University of Technology, Ranchi

Diploma 2nd Semester Examination, 2025 (NEP)

Subject : Construction Materials

Subject Code : CIV 201

Time Allowed : 3 Hours

Full Marks : 70

Pass Marks : 21

Answer in your own words.

Answer any five questions in which Question No. 1 is compulsory.

The figures in the margin indicate full marks.

All questions carry equal marks.

1. Write correct answer of the following questions:

2×7=14

- (i) Which of the following is an igneous rock?
(a) Limestone (b) Granite
(c) Sandstone (d) Slate
- (ii) Which method is commonly used for seasoning timber?
(a) Air drying (b) Painting
(c) Polishing (d) Burning
- (iii) Which brick is made using industrial waste?
(a) Modular brick (b) Fly ash brick
(c) Standard brick (d) Clay brick
- (iv) Which cement type is suitable for marine construction?
(a) Ordinary Portland Cement (b) Sulphate Resisting Cement
(c) Quick Setting Cement (d) Rapid Hardening Cement
- (v) Which of the following is a ferrous metal?
(a) Copper (b) Aluminium
(c) Cast Iron (d) Zinc
- (vi) Which material is used for termite proofing?
(a) Bitumen (b) Boric acid
(c) Cement (d) Lime
- (vii) Which of the following is a processed construction material?
(a) Sand (b) Timber
(c) Plaster of Paris (d) Aggregate

Please Turn Over

2. (a) Explain the requirements of good building stones.
(b) Describe the quarrying of stones by wedging method. 7+7
3. (a) Explain the structure and properties of good timber.
(b) Describe the defects in timber and their causes. 7+7
4. (a) Write the characteristics of good bricks.
(b) Explain the clamp burning method used in brick manufacturing. 7+7
5. (a) Describe the manufacturing process of cement using dry method.
(b) Explain the properties and uses of pavement blocks. 7+7
6. (a) What are the constituents and uses of paints and distempers?
(b) Explain the applications of manufactured sand in construction. 7+7
7. Write short notes on *any four* of the following: 3.5×4=14
- (a) Fly ash bricks
 - (b) Particle board
 - (c) Aluminium Composite Panels (ACP)
 - (d) Shotcrete
 - (e) Borosilicate glass
 - (f) Non-shrink grouts
-