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Question Paper Code: 54102

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Fourth Semester

Civil Engineering

15UCE402 - CONSTRUCTION TECHNIQUES, EQUIPMENTS AND PRACTICES

(Regulation 2015)

(IS 10262:2009 permitted)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. What is the approximate mix used for M25 CO1-R
(a) 1:3:6 (b) 1:2:4 (c) 1:1.5:3 (d) 1:1:2
2. ISI has specified the full strength of concrete after CO1-R
(a) 7 days (b) 14 days (c) 21 days (d) 28 days
3. The bond containing alternate course of stretchers and headers is CO2-R
(a) Stretcher bond (b) Header bond
(c) English bond (d) Double Flemish bond
4. The first step in flooring work is CO2-R
(a) Topping (b) Base coat (c) Sand filling (d) R.C.C floor
5. Distemper is used on CO3-R
(a) Brick walls
(b) Concrete surfaces
(c) Plastered surfaces exposed to weather
(d) Plastered surfaces not exposed to weather
6. The term used to indicate the treatment which is given to a building CO3-R
so as to prevent or control the growth of termite in a building
(a) Damp proofing (b) Water proofing (c) Leakage proofing (d) termite proofing

7. Rehabilitation of structures may be required due to several reasons; any One reason is from followings CO4-R
- (a) Environmental effects (b) Tensile effects
(c) Compressive effects (d) Range effects
8. In the packer method of grouting, the grouting is started from CO4-R
- (a) Top of the hole (b) Bottom of the hole
(c) Middle of the hole (d) Any portion of the hole
9. Which of the following is not a handling equipment? CO5-R
- (a) Conveyors (b) Overhead cranes (c) Mobile cranes (d) Rollers
10. Trenching machines cannot be used for CO5-R
- (a) Rocks (b) Hard clay (c) Muddy clay (d) Loose material

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Explain with neat sketches the various tests on fresh concrete. CO1-U (8)
12. Explain in detail the sequence of activities involved in construction of a building. CO2-U (8)
13. Explain various methods used for damp proofing course. CO3-U (8)
14. Explain the various causes for deterioration of concrete structures. CO4-U (8)
15. Explain in detail about various types of earthwork equipments with special purpose usage for each equipment. CO5-U (8)

