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Question Paper Code: 43102

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

Third Semester

Civil Engineering

14UCE302 – CONSTRUCTION TECHNIQUES AND PRACTICES

(Regulation 2014)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

- In the manufacture of cement, the dry or wet mixture of calcareous and argillaceous materials is burnt at a temperature between
 - $900^{\circ}C$ to $1000^{\circ}C$
 - $1000^{\circ}C$ to $1200^{\circ}C$
 - $1200^{\circ}C$ to $1500^{\circ}C$
 - $1500^{\circ}C$ to $1600^{\circ}C$
- As per IS 456:2000 list up to which grade of concrete nominal mix may be used
 - M40
 - M10
 - M20
 - M60
- The minimum thickness of a wall in stone masonry should not be less than
 - 100 mm
 - 200 mm
 - 350 mm
 - 450 mm
- In horizontal D.P.C, thickness of cement concrete (1 : 2 : 4) is
 - 2 cm
 - 4 cm
 - 6 cm
 - 8 cm
- In fire proof paints the main consistent is
 - aluminium powder
 - red lead
 - copper powder
 - asbestos fibers

6. Distemper is used to coat
- (a) external concrete surface
 - (b) interior surface not exposed to weather
 - (c) wood work
 - (d) compound walls
7. Pieces of stones are called
- (a) Ballast
 - (b) Spalls
 - (c) Crushed stone
 - (d) None of these
8. Pieces of stones are called
- (a) ballast
 - (b) spalls
 - (c) crushed stone
 - (d) none of these
9. The equipment which shapes the ground and spreads the loose soil
- (a) scraper
 - (b) grader
 - (c) tractor
 - (d) dozer
10. Construction team means
- (a) an engineer
 - (b) an architect
 - (c) an owner
 - (d) all the above

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Explain briefly about the steps involved in manufacturing process of concrete. (8)
12. Briefly explain the sequence of activities to be done in construction. (8)
13. Describe in detail the construction practices to be followed for acoustics and fire protection. (8)
14. What are the defects normally observed in concrete structures? Discuss briefly their remedies. (8)
15. Explain in detail the various equipment used for compaction, batching and mixing of concrete. (8)