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**Question Paper Code: 31132**

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

Third Semester

Civil Engineering

01UCE302 - CONSTRUCTION TECHNIQUES AND PRACTICES

(Regulation 2013)

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

5. In fire proof paints the main consistent is
- (a) aluminium powder (b) red lead  
(c) copper powder (d) 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. Illustrate the process carried out in ready mix concrete. (8)
12. Identify the suitable types of foundation for hard and soft strata with neat sketches. (8)
13. Explain about the fire protection techniques used in buildings. (8)
14. Narrate various causes and damages in buildings. (8)
15. Explain about (i) compacting equipments (8)