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Question Paper Code: 43102

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

Third Semester

Civil Engineering

14UCE302 – CONSTRUCTION TECHNIQUES AND PRACTICES

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions.

(Use of IS 10262:2009 and IS 456:2000 code books are permitted)

PART A - (10 x 1 = 10 Marks)

- In a mortar the binding material is
 - cement
 - sand
 - surkhi
 - cinder
- Vicat's apparatus is used for
 - fineness test
 - consistency test
 - setting time test
 - soundness test
- The tendency of a stone is to split along
 - texture
 - fracture
 - cleavage
 - structure
- The form work from the underside of slabs, can be removed only after
 - 1 day
 - 4 day
 - 7 day
 - 14 day
- 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. A maintenance done after the defects is called
- (a) remedial
 - (b) routine
 - (c) special
 - (d) strengthening
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 (5 x 2 = 10 Marks)

11. What does the grade of cement denote?
12. Mention the advantages of slip forms.
13. Define dampness.
14. What do you mean by modernization and rehabilitation?
15. Give a list of equipments needed in the construction of tall structures.

PART - C (5 x 16 = 80 Marks)

16. (a) Explain briefly about the steps involved in manufacturing process of concrete. (16)
- Or
- (b) Describe the processes in the manufacture of ordinary Portland cement. (16)
17. (a) Briefly explain the sequence of activities to be done in construction. (16)
- Or
- (b) List out the types of scaffolding and explain in detail with neat sketches. (16)

18. (a) Give a brief description of the process of painting on different surfaces. (16)

Or

(b) Explain the various methods of providing DPC? Also state the requirements of an ideal material for Damp proofing. (16)

19. (a) Describe the various strengthening techniques to overcome low member strength. (16)

Or

(b) Explain the classification of cracks and how the cracks can be measured and reported. (16)

20. (a) Discuss the factors affecting the selection of equipments for a earth work. (16)

Or

(b) Discuss the role of tractors in earth moving. What considerations govern the selection of wheel type or crawler type tractor on a job? Compare their applications. (16)
