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Question Paper Code: 54102

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

Fourth Semester

Civil Engineering

15UCE402 - CONSTRUCTION TECHNIQUES, EQUIPMENTS AND PRACTICES

(Regulation 2015)

(IS 10262:2009 permitted)

Duration: Three hours

Maximum: 100 Marks

PART A - (10 x 1 = 10 Marks)

1. The minimum 28 days' compressive strength of 43 grade cement is CO1- R
(a) 23 MPa (b) 33 MPa (c) 40 MPa (d) 43 MPa
2. Following is not the method of mix design CO1- R
(a) I.S. method (b) ACI method (c) Normal mix method (d) All the above
3. A temporary structure erected with a purpose of providing a safe working platform is known as CO2- R
(a) centering (b) shore (c) rake (d) scaffolding
4. A course is a _____ layer of bricks CO2- U
(a) vertical (b) horizontal (c) inclined (d) oblique
5. The ingredient which gives the desired colour to a paint is called CO3- U
(a) base (b) pigment (c) vehicle (d) solvent
6. Driers in varnish are used as CO3- R
(a) Reducers (b) Retarders (c) accelerators (d) Oxidisers
7. Act of keeping something in good condition by checking it regularly is called CO4-U
(a) Repair (b) Rehabilitation (c) Maintenance (d) Inspection

8. Freezing and thaw means CO4- R
 (a) Wetting (b) Wetting& drying (c) Drying (d) Cooling
9. Following one is not the type of scrapper CO5- R
 (a) Single engine scraper (b) Twin engine scraper
 (c) Angle scraper (d) Auger scraper
10. Rollers are example for CO5- R
 (a) Excavation type (b) Compaction type (c) mixing type (d) All of the above

PART – B (5 x 2= 10Marks)

11. What is meant by batching? CO1- R
12. What are the types of flooring? CO2- R
13. List the grades of fire load as Per IS. CO3- R
14. What are the causes of deterioration? CO4- R
15. What are the steps in repair aspect? CO5- R

PART – C (5 x 16= 80Marks)

16. (a) Discuss in detail about the stages in manufacturing of concrete. CO1- App (16)
- Or
- (b) Write short notes on CO1- U (16)
 (i) Batching and mixing of concrete
 (ii) Segregation of concrete.
17. (a) Elaborate with neat sketches the different types of brick masonry. CO2- App (16)
- Or
- (b) Explain the various types of flooring with neat sketches.. CO2- Ana (16)
18. (a) Explain the operational requirements of ventilation and air conditioning in buildings. CO3- Eva (16)

Or

- (b) Write short notes on CO3- U (16)
(i) Distemping
(ii) Fire protection and thermal insulation
19. (a) Classify and explain in detail the various types of maintenance work in buildings. CO4- U (16)
- Or
- (b) What are the various causes of damage in a buildings, explain in detail. CO4- Ana (16)
20. (a) Explain the various factors affecting selection of construction Equipment CO5- App (16)
- Or
- (b) Discuss the equipment for compaction and concreteing. CO5- U (16)

