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**Reg. No. :**

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**Question Paper Code: 56102**

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

Sixth Semester

Civil Engineering

15UCE602-CONSTRUCTION MANAGEMENT AND FINANCE

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Which one of the following represents an activity CO1- R
  - (a) Excavation for foundation
  - (b) Curing of concrete
  - (c) Setting of foundation
  - (d) All the above
  
2. The technique for establishing and maintaining priorities among the various jobs of a project, is known CO1- R
  - (a) Event flow scheduling technique
  - (b) Critical ratio scheduling
  - (c) Slotting technique for scheduling
  - (d) Short interval scheduling.
  
3. Pick up the PERT event from the following: CO2- R
  - (a) Digging of foundation started
  - (b) Laying of concrete started
  - (c) Laying of concrete completed
  - (d) All the above
  
4. The performance of a specific task in CPM, is known CO2- R
  - (a) Dummy
  - (b) Event
  - (c) Activity
  - (d) Contract.
  
5. A Milestone chart CO3- R
  - (a) Shows the interdependencies of various jobs
  - (b) Depicts the delay of jobs, if any
  - (c) Points outgoing ahead of schedule of jobs, if any
  - (d) None of these

6. Time and progress chart of a construction, is also known as CO3- R  
 (a) Bar chart      (b) Gantt chart      (c) Critical path method chart      (d) All the above
7. The artificial activity which indicates that an activity following it, cannot be started unless the preceding activity is complete, is known as CO4- R  
 (a) Event                      (b) Free float                      (c) Dummy                      (d) Constant
8. The most popular type of organization used for Civil Engineering Constructions, is CO4- R  
 (a) Line organization                                      (b) Line and staff organization  
 (c) Functional organization                                      (d) Effective organization
9. Sinking fund is CO5- R  
 (a) The fund for rebuilding a structure when its economic life is over  
 (b) Raised to meet maintenance costs  
 (c) The total sum to be paid to the municipal authorities by the tenants  
 (d) None of the above
10. Construction team means CO5- R  
 (a) An engineer      (b) An architect      (c) A contractor      (d) All the above

PART – B (5 x 2= 10 Marks)

11. Define activity duration. CO1- R
12. What are coding systems. CO2- R
13. Define cost control CO3- R
14. Illustrate quality control circles. CO4- R
15. Define capital budjeting. CO5- R

PART – C (5 x 16= 80 Marks)

16. (a) Explain the different types of construction plans for projects. CO1- U (16)
- Or
- (b) Discuss in detail about the factors affecting the work scheduling. CO1- U (16)

17. (a) Describe in detail about the critical path scheduling with suitable examples. CO2- U (16)
- Or
- (b) Write short notes on CO2- U (16)
- (i) Scheduling with resource constraints and
  - (ii) Resource oriented scheduling.
18. (a) Explain in detail the duties and responsibilities of executive and superintendent engineer in PWD. CO3-U (16)
- Or
- (b) Write short notes on CO3-U (16)
- (i) Finance accounting systems and
  - (ii) Technical sanction
19. (a) Discuss in detail about the various quality control by statistical methods. CO4- U (16)
- Or
- (b) Explain quality assurance techniques followed and also accounting procedure. CO4- U (16)
20. (a) Explain in detail about the various financial institutions and also sources of financing. CO5- U (16)
- Or
- (b) Explain briefly on CO5- U (16)
- (i) Profit and loss account and
  - (ii) Cost benefit analysis

