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Question Paper Code : 40731

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018
Sixth Semester
Civil Engineering
CE 6005 – CONSTRUCTION PLANNING AND SCHEDULING
(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A

(10×2=20 Marks)

1. Define the following terms.
 - a) Activity
 - b) Event
2. What are the advantages of using coding system ?
3. Define critical path. What will be the value of slack in Critical Path ?
4. What are the types of float ?
5. What are the types of Assets ?
6. What are the sources of cash inflow and cash outflow ?
7. Define Quality. What are the factors affecting Quality in construction ?
8. What are the Various Safety equipments ? Mention two safety Quotation.
9. Define relational model.
10. What are the disadvantages of centralized database management systems ?



PART – B

(5×13=65 Marks)

11. a) Explain how precedence relationship among activities are defined.
(OR)
b) Discuss the various factors deciding the activity durations.
12. a) Explain Scheduling with Resource Constraints and Precedence.
(OR)
b) Discuss the three time estimate in PERT network analysis.
13. a) Explain Forecasting for Activity Cost Control.
(OR)
b) Explain in detail about the control involved in project cash flows.
14. a) Explain the method of quality control by statistical methods and method of sampling with attributes.
(OR)
b) What are the Quality and Safety concerns in construction ? Explain in detail.
15. a) Explain in detail about Centralized Database Management System.
(OR)
b) Discuss about Conceptual Models of Databases in detail.

PART – C

(1×15=15 Marks)

16. a) The details of the network are given below where the duration of activities are in days. Find the critical path and project completion time.

Activity	Predecessor	Duration
A	–	3
B	–	5
C	A, B	4
D	C	6
E	C	3
F	D	2
G	D, E	4

(OR)

- b) Explain the difference between CPM and PERT.