

Total No. of printed pages = 8

END SEMESTER EXAMINATION - 2019

Semester – 6th*

Subject Code : CT-603

**CONSTRUCTION AND PROJECT
MANAGEMENT**

Full Marks – 70

Time – Three hours

The figures in the margin indicate full marks
for the questions.

Instructions :

1. All questions of PART-A are compulsory.
2. Answer any *five* questions from PART-B.

PART – A

Marks – 25

Answer the following questions as directed :

Choose the correct option : $1 \times 25 = 25$

1. The main function of construction management is
(a) Planning (b) Organising
(c) Directing (d) All of these

[Turn over

2. The construction of residential building are treated as
- (a) light construction
 - (b) heavy construction
 - (c) industrial construction
 - (d) None of the above
3. A construction team includes
- (a) Owner
 - (b) Engineer
 - (c) Architect
 - (d) All of these
4. The construction of chemical plants are treated as
- (a) light construction
 - (b) heavy construction
 - (c) industrial construction
 - (d) None of the above
5. The earliest method used for planning of project was
- (a) CPM
 - (b) PERT
 - (c) Bar chart
 - (d) Mile stone chart

79/CT-603/C&PM

(2)



6. The construction of dams are treated as
- (a) light construction
 - (b) heavy construction
 - (c) industrial construction
 - (d) None of the above
- A Bar chart is drawn for
- (a) time versus activity
 - (b) activity versus resources
 - (c) resources versus progress
 - (d) progress versus time
8. Bar chart is suitable for
- (a) large project
 - (b) major work
 - (c) minor work
 - (d) All of these
- Write true or false :**
9. The use of Bar chart is very popular in construction because, modification of the chart if required can be carried out easily.
10. An activity is beginning or end of a specified job.
11. PERT is a project planning and control technique.

79/CT-603/C&PM

(3)

[Turn over

Choose the correct option :

12. CPM is

- (a) activity – oriented
- (b) event – oriented
- (c) time – oriented
- (d) resource – oriented

13. CPM requires

- (a) single time estimate
- (b) double time estimate
- (c) triple time estimate
- (d) None of the above

14. PERT requires

- (a) single time estimate
- (b) double time estimate
- (c) triple time estimate
- (d) None of the above

15. PERT analysis is based on

- (a) optimistic time
- (b) pessimistic time
- (c) most likely time
- (d) All of the above

79/CT-603/C&PM

(4)



16. Probabilistic time for completion of any activity can be found out from

- (a) optimistic time
- (b) pessimistic time
- (c) most likely time
- (d) All of the above

17. The time which an activity will take to complete in case of difficulty is called

- (a) optimistic time
- (b) pessimistic time
- (c) most likely time
- (d) All of these

Choose the correct option :

18. The most likely time is the time in which the activity is normally expected to complete under normal contingencies.

- (a) agree
- (b) disagree

Write true or false :

19. When float of an activity is zero, the activity is critical activity.

20. Critical path is shortest path in a network.

21. Dummy activity does not consume any time and resources.

79/CT-603/C&PM

(5)

Turn over

Choose the correct option :

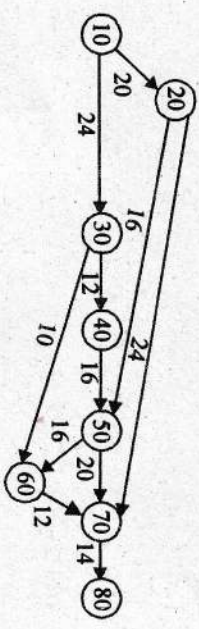
PART - B
Marks - 45

22. The occurrence of the completion of an activity is called its
- (a) head event
 - (b) tail event
 - (c) dual role event
 - (d) None of these
23. The occurrence of the starting of an activity is called its
- (a) head event
 - (b) tail event
 - (c) dual role event
 - (d) None of these
24. Critical activity has
- (a) maximum float
 - (b) minimum float
 - (c) zero float
 - (d) average float
25. Which of the following is an activity ?
- (a) Construction of foundation
 - (b) Construction of roof
 - (c) Construction of super structure
 - (d) All of the above.



26. (a) Explain light construction. 3
(b) What are the functions of construction management ? 3
(c) What are the disadvantages of Bar chart ? 3
27. (a) Explain tendering stage in construction. 3
(b) Explain construction team. 3
(c) Explain turn key contract. 3
28. (a) What are the features of PERT ? 4
(b) Explain the various types of civil engineering drawings. 5
29. (a) Explain the advantages of arbitration. 4
(b) Explain safety measures for demolition of building. 5

30. Find the critical path for the network shown below : 9



31. A student while writing exam, takes no less than five minutes to answer a question and sometimes as much as seventeen minutes. Ten minutes time duration for a question are most frequent. If this has to be represented as PERT then

- (a) What would be the expected duration to answer a question ?
- (b) What estimate would you give for its variance ?
- (c) In scheduling the project, how much time would you allocate for answering a question ?

$$3+3+3=9$$

