

Total No. of Questions : 4]

SEAT No. :

PD12

[Total No. of Pages : 2

[6409]-205

S.E. (Civil) (Insem)

PROJECT MANAGEMENT

(2019 Pattern) (Semester - IV) (201012)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4.
- 2) Figures to the right indicate full marks.
- 3) Neat figures must be drawn wherever necessary.
- 4) Assume suitable data, if necessary.

- Q1) a) Explain the importance of Project Management in Construction Industry. [5]
- b) Write a short note on PMBOK. [5]
- c) Explain the following principles of management. [5]
- i) Remuneration
 - ii) Centralization

OR

- Q2) a) Explain with a neat sketch "Line and staff organization". [5]
- b) What do you mean by Project Failure? What are the causes of project failure? [5]
- c) What is meant by authority? Also state meaning of delegation of authority. [5]

- Q3) a) The table below gives activities and their durations: [8]

Activity	Duration (days)
1-2	5
2-3	5
2-4	9
2-5	11
3-5	7
4-5	0
5-6	8
6-7	6
6-8	15
7-8	12

- i) Draw a network and calculate project duration and highlight critical path.
- ii) Calculate EST, EFT, LST, LFT and total float for the activities.

P.T.O.

- b) Compare Bar Chart and CPM on the following points: [4]
- Activity dependence
 - Resource allocation
 - Interpretation and ease in reading
 - Time control
- c) Define critical activity, critical path and dummy activity. [3]

OR

- Q4) a) The following table gives the time estimates for various activities of project: [8]

Activity	Duration in weeks		
	t_o	t_m	t_p
1-2	3	8	13
1-3	2	5	8
2-4	3	8	7
2-5	4	7	10
3-5	2	3	10
4-6	7	9	11
5-7	4	6	8
6-8	6	9	12
6-7	5	7	9
7-8	2	5	14

- Draw the project network and find total project duration and highlight critical path.
 - Calculate variance of all the activities.
 - What is the probability that project will be completed in 37 weeks.
- b) Write a short note on "Gantt Chart and its limitations" [4]
- c) Define total float, free float and independent float. [3]

