

Total No. of Questions : 6]

SEAT No. :

P294

[Total No. of Pages : 2

APR-16/TE/ Insem. - 2
PROJECT MANAGEMENT AND ENGINEERING
ECONOMICS (Semester - II)

*Time : 1 Hour]**[Max. Marks : 30**Instructions to the candidates:*

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume Suitable data if necessary.

Unit - I

- Q1)** a) Discuss in detail basic approach of scientific management. [4]
- b) Write short note on : [6]
- i) Division of work
 - ii) Delegation of authority

OR

- Q2)** a) Define the term organization. Discuss in detail functional organization [4]
- b) What are the different categories of project? [3]
- c) Which are the factors affecting failure of construction project [3]

Unit - II

- Q3)** a) What is PERT? Explain its application. [3]
- b) What do you mean by Dummy activity? What is the use of providing dummy activity in a network. [3]
- c) Write short note on : Work Break Down Structure [4]

OR

P.T.O.

- Q4) a)** For a small construction project the time estimates of different activities are given below. [5]

Activity	Optimistic duration (days)	Most likely Duration (days)	Pessimistic Duration (days)
1-2	5	10	25
2-3	3	5	9
2-4	4	8	15
2-5	4	8	11
3-5	5	8	24
4-5	6	9	18
5-6	7	10	19

Draw network. Calculate expected minimum duration and highlight critical path.

- b) What are the basic tools and techniques of project management? Explain in brief. [5]

Unit - III

- Q5) a)** What is cost slope and how it is determined. [3]
 b) What are the objectives of resource levelling [4]
 c) Enlist the various factors affecting man-power planning. [3]

OR

- Q6) a)** Differentiate various cost control system and explain each in brief [5]
 b) What do you mean by LOB. State its advantages & disadvantages [5]

