

Total No. of Questions : 12]

SEAT No. :

P2542

[5153]-507

[Total No. of Pages : 3

T.E. (Civil)

PROJECT MANAGEMENT & ENGINEERING ECONOMICS

(2012 Pattern) (Semester - II) (End Semester) (301008)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10, Q11 or Q12.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume Suitable data if necessary.*

Q1) Enlist various types of organizational structures? Explain any one in detail.[6]

OR

Q2) Discuss the key feature of PMBOK. [6]

Q3) Following is the data for small project. Draw a network and determine critical path and expected minimum duration. [8]

Activity	Estimated Duration in Days		
	Optimistic	Most Likely	Pessimistic
1-2	4	10	22
2-3	2	5	8
2-4	4	7	16
2-5	4	7	10
3-5	4	7	22
4-5	5	8	17
5-6	6	9	18

OR

P.T.O.

- Q4)** Write short note on: [8]
- a) Types of float
 - b) Project life cycle

- Q5)** Enlist various project management software used in construction sector. Discuss advantages of these software's. [6]

OR

- Q6)** What do you mean by EVA? Explain any one method in detail. [6]

- Q7)**
- a) Explain in brief law of substitution. [6]
 - b) Discuss the following in brief: [6]
 - i) Equilibrium Price
 - ii) Equilibrium amount
 - c) Define capital. Explain fixed and working capital. [6]

OR

- Q8)**
- a) Explain in detail Elasticity of demand. [6]
 - b) Discuss the various source of project finance. [6]
 - c) Explain the following terms: [6]
 - i) Annuity
 - ii) Money

- Q9)**
- a) What are the objectives of material manager. [6]
 - b) What is inventory? Explain significance of inventory. What are the different types of inventories. [6]
 - c) What do you mean by: [4]
 - i) Economic lot size
 - ii) Safety stock

OR

- Q10)a)** Carry out A-B-C - analysis for the following construction items and plot ABC curve. **[8]**

Item	Annual Expenditure (Rs.)
Cement	6,00,000
Sand	3,90,000
Bricks	1,20,000
Paint	90,000
Steel	5,00,000
Oil	4,000
Course Aggregate	1,00,000

- b) Write short note on: **[8]**
- i) Personal Protective Equipment
 - ii) Overall Equipment Effectiveness

- Q11)a)** Explain the concept of benefit cost Analysis. **[6]**
- b) Discuss the role of Project Management consultant in construction project. **[6]**
- c) Write short note on IRR method. **[4]**

OR

- Q12)a)** A company wishes to invest in a new project. It has two alternatives A and B. Following data pertains to the two alternatives. Which project will the company select based on NPV and IRR? **[8]**

Particulars	Project A	Project B
Investment in Rs.	1,00,000	1,50,000
Cash Inflow in Rs.		
Year 1	75,000	95,000
Year 2	45,000	80,000
Interest Rate (%)	10	10

- b) Write short note on: **[8]**
- i) Criteria for project selection.
 - ii) Detailed Project Report.

