

Total No. of Questions : 12]

SEAT No. :

**P1194**

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**B.E. (Electrical)**

**d : PROJECT MANAGEMENT**

**(2008 Course) (403143) (Elective - I) (Semester - I)**

*Time : 3 Hours]*

*[Max. Marks : 100*

*Instructions to the candidates:*

- 1) *Answer Q 1 or Q 2, Q 3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q 10, Q 11 or Q 12.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume Suitable data if necessary.*

**Q1) a)** Explain Project life cycle and draw a well labeled diagram. State its phases. **[8]**

b) Define project Management. Explain its characteristics and importance. **[9]**

OR

**Q2) a)** Explain various characteristics of project management. How is project appraisal carried out? **[8]**

b) What is the need for Project management? Explain various phases of Project life cycle. **[9]**

**Q3)** Project is faced with evaluation of two alternatives A and B. The company cost of capital is 10%. Use Net present value, profitability index and payback period methods to arrive at a suitable decision. **[16]**

Immediate cash out flows (in Rs. lacs)		cash inflows (in Rs. lacs) at the end of				
		Iyr	IIyr	IIIyr	IVyr	Vyr
Project A	30	-	10	20	14	14
Project B	45	10	15	15	17	15

OR

**P.T.O.**

**Q4) a)** What is the importance of Project selection? Explain the probable causes of project failure. [8]

b) What costs are associated with a project and how are they estimated? How will you carry out the financial evaluation of a project? [8]

**Q5) a)** Explain PERT and CPM. What is the significance of critical path? Explain the concept of crashing. [8]

b) Write short notes on: [8]

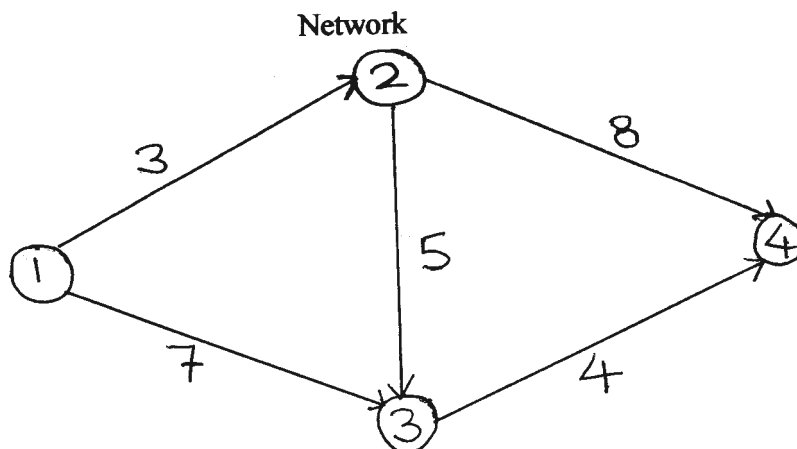
i) GERT

ii) Resource allocation

OR

**Q6)** The following data pertains to the network given below. It is desired to compress the project to the least possible duration day by day and estimate the extra cost. [16]

i-j	Normal Time (days)	Crash Time (days)	Cost slope (Rs. per day)
1-2	3	2	500
1-3	7	4	200
2-3	5	3	100
2-4	8	6	200
3-4	4	2	300



- Q7) a)** What are the probable factors for cost escalation? How to take care of them in planning stage? [8]
- b) What is the importance of a budget? What are the elements to be considered for making a budget? Describe the advantages of budgetary control. [9]

OR

- Q8) a)** What are different cost factors? Define direct cost, indirect cost & prime cost. [9]
- b) Write short notes on:
- i) Budgetary control
- ii) Factors of cost escalation. [8]

- Q9) a)** Name the factors which are important in international project management and how to control them? [9]
- b) Explain in detail quality planning, assurance and control. [8]

OR

- Q10)a)** Explain short notes on:
- i) International project Management
- ii) Quality of procured items [9]
- b) What are the different methods for maintaining the quality of procured items? Describe the detail. [8]

- Q11)a)** The expected cash inflows from a project and their probability are as under. [9]

Expected cash inflow (Rs.)	Probability
20,000	0.30
30,000	0.40
40,000	0.10
10,000	0.20

The cash inflow acceptable for the project sponsor is Rs. 30,000. What is the certainty equivalent coefficient?

- b) The expected cash inflows of a project are estimated as under. [8]

Year	Cash inflow(Rs.)
1	1,50,000
2	2,50,000
3	3,50,000
4	2,50,000
5	2,00,000

The initial investment required for the project is Rs. 6,50,000/-. The risk adjusted discount rate is 10%. Evaluate as to whether the project proposal is worthwhile.

OR

- Q12)a)** Write short notes on: [8]

- i) Computer Aided Project Management.
- ii) Portfolio risks

- b) Write short notes on: [9]

- i) Diversible and Non-diversible risks.
- ii) Capital Asset pricing model.

