

Total No. of Questions : 8]

SEAT No. :

**PC2781**

[Total No. of Pages : 2

[6352]-5

**S.E. (Civil Engineering)**

**PROJECT MANAGEMENT**

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

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) Answer Q.1 or Q.2 Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Figures to the right indicate full marks.
- 3) Assume Suitable data, if necessary.
- 4) Use of calculator is allowed in the examination.
- 5) Neat diagrams must be drawn wherever necessary.

- Q1)** a) Explain the procedure of procurement of primary materials. [5]  
b) Describe ABC Analysis and state its advantages in construction industry. [5]  
c) The annual demand of a construction item by a firm is 6400 units. The unit cost is Rs. 6 and inventory carrying cost per unit per annum is 25% of the average inventory cost. If the cost of procurement is Rs. 75, determine (a) economic order quantity. [7]

OR

- Q2)** a) Describe implementation of safety programs in a construction project. [5]  
b) Write short note on Personal Protective Equipment [5]  
c) Explain Economic ordering quantity. [7]

- Q3)** a) Differentiate between resource levelling and resource smoothing. [5]  
b) What do you mean by Project Monitoring. Explain any one method of project monitoring. [5]  
c) What is updating of network. Also state its advantages. [8]

OR

- Q4)** a) What do you mean by network crashing? Explain with suitable example. [5]  
b) Explain Earned value analysis and its advantages. [5]  
c) Enlist various project management software used in construction sector. Discuss advantages of these softwares. [8]

**P.T.O.**

- Q5)** a) Explain importance of project economics in construction industry. [5]  
 b) Discuss in brief the following: [5]  
 i) Equilibrium Price  
 ii) Equilibrium amount  
 c) Define capital. Discuss in brief working capital. [7]

OR

- Q6)** a) Explain in detail Elasticity of demand. [5]  
 b) State and explain the various sources of project finance. [5]  
 c) Explain in detail Time value of money. [7]

- Q7)** a) List different types of project appraisal. Explain any one in detail. [6]  
 b) A construction company has the resources to implement one of the two projects that have been offered to it. Using NPV suggest the company should accept. The expected returns are about 12% per annum. [6]

Particulars	Project A	Project B
Initial Investment (Rs.)	4,00,000	3,50,000
Annual Income (Rs.) Year 1	1,50,000	1,00,000
Annual Income Year 2	2,00,000	3,00,000
Annual Income Year 3	80,000	50,000
Annual Income Year 4	1,00,000	90,000
Annual Income Year 5	20,000	60,000

- c) Write short note on IRR method. [6]

OR

- Q8)** a) Explain discounted and Non Discounted cash flow techniques for project selection. [6]  
 b) Discuss the role of project management consultant in pre tender and post tender stage. [6]  
 c) Write a note on NPV and IRR. [6]

\* \* \*