**Total No. of Questions: 8]** 

P597

SEAT No.:	
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[Total No. of Pages: 3

[5869]-210 S.E. (Civil)

## PROJECT MANAGEMENT

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

Time: 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.
- 2) Neat diagrams must be drawn whenever necessary.
- 3) Figures to the right indicates full marks.
- 4) Assume suitable data, if necessary.

Q1) a) Carry out ABC analysis for the following items and plot ABC curve.[10]

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Item No.	Item	Annual Expenditure (Rs.)
1	Cement	5,00,000
2	Sand	3,00,000
3	Bricks	1,00,000
4	Siporex Blocks	2,50,000
5	Paint	60,000
6	Steel	4,50,000
7	Tiles	70,000
8	Oil	2,000
9	Course Aggregate	95,000
10	Electrical fitting	50,000
11	Nails	1,500
12	Timber	42,000

- b) What are the responsibilities of a safety manager on construction sites?[4]
- c) Explain the use of Project Management Software's in Construction Industry. [4]

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<b>Q</b> 2)	a)	Define the terms:	[8]			
		i) Safety stock				
		i) Safety stock ii) Lead time iii) Inventory iv) EQQ				
		iii) Inventory				
		iv) EOQ				
	b)	What are the objectives of material management?	[4]			
	c)	A construction company purchases 10,000 bags of cement annual Each bag of cement cost Rs. 300/- and the cost incurred in procure each lot is Rs. 200/ The cost of carrying is 25%. What is the necessary Economic order Quantity? What is the average inventory level?	ring			
Q3)	a)	What is network crashing? Explain with suitable example.	[8]			
	b)	Explain resource smoothing and leveling. Use diagram wherever required	1.[5]			
	c)\	Explain Project Management software in construction site planning. [4]				
		QR				
<b>Q4</b> )	a)	What do you mean by Earned Value Analysis? Explain any one met in detail.	hod [ <b>5</b> ]			
	b)	What are the objectives of Resource leveling? Explain the procedur carryout resource leveling.				
	c)	Explain the term Rescheduling and Updating.	[4]			
<b>Q</b> 5)	a)	Explain demand and supply curve and factors affecting on it.	[5]			
	b)	How to calculate simple and compound interest? What is the difference between simple interest and compound interest payable on principal of				
		Rs. 15,000 in 2 years at the rate of 8% p.a.	[8]			
	c)	What are the factors affecting on Price Determination?	[5]			
		OR OR				
<b>Q6</b> )	a)	Difference between Costs, Value.	[8]			
	b)	Explain the types of Capital.	[6]			
	c)	Explain the FDI in Infrastructure.	[4]			
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- Following are the details of Project A and B. Using NPV (i = 8%). **Q7**) a) Comment on the following statements: [10]
  - Whether both projects are feasible? i)
  - Whether both projects are not feasible? ii)
  - Either of the A or B is feasible? iii)

Years	Project A	Project B
Initial Investment	4,00,000	4,50,000
1	1,20,000	1,40,000
(2)	1,25,000	1,45,000
3 %	78,000	76,000
10 A	80,000	65,000
5	75,000	60,000
6	-0	90,000

- b) Explain in detail the role of Project Management Consultants in Civil Engineering field. [7]
- Write a short note on; Q8)
  - i) **NPV**
  - **IRR** ii)
  - Pay-Back Period
  - b) Discuss the following:
    - Selection Criteria for project i)
    - **Detailed Project report** ii)