Total No	o. of Questions : 8]	SEAT No. :							
PB36	00	[Total No. of Pages : 3							
[6261]-5									
S.E. (Civil)									
PROJECT MANAGEMENT									
S'. S'.									
(2019 Pattern) (Semester - IV) (201012)									
	/2 Hours]	[Max. Marks : 70							
Instructi	ons to the candidates:	9							
1)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.								
2)	Figures to the right indicates full marks.								
3)	Neat figures must be drawn wherever necessary.								
<i>4</i>)	Assume suitable data if required.	V &							
		Ö,							
	8. 0 m	V							
Q1) a)	Write a short note on:	[6]							
	i) Purchase Order								
	W. M. LID. L. C. C. C.								
	ii) Material Receipt								
b)	How doyou inspect quality of material like s	sand and aggregate on your							
0)	site?								
	Site:	[5]							
c)	Define Inventory and list out step by step	process to conduct ABC							
,	analysis.	[6]							
	×,								
	OR								
		7, 0x							
Q2) a)	A construction Company purchases 12000/2	Bags of Cement Annually							
	with effective cost Rs. 315/-per Bag, the cos	t of procurement = Rs. 150							
	per lot & holding cost is 20%. Calculate EO	Q. (5)							
		9							
b)	What are the objectives of Materials Manager	ment? Explain any two. [6]							
c)	What safety precautions would you take to a	void accidents on tunneling							
	site? Explain safety programme undertaken.	[6]							
	one. Explain surery programme undertaken.								
	× ′	<i>P.T.O.</i>							

P.T.O.

Q3) a) What is MSP? State its Importance in Construction Sector. [5]
b) Write a short notes on: [6]
i) Objectives of Resource Smoothening.
ii) Steps in Resource Smoothening.
c) Explain different methods of EVA. Explain any one in details. [6]

OR

- Q4) a) Explain Step by step process of Network Crashing? [5]
 - b) What is Cost Slope and how it is determined? [4]
 - c) Following table shows the data of small construction project.

Draw the network diagram and update the network by using the following conditions at the end of 10 days. [8]

- i) What is the change in the project duration?
- What is remaining duration of project

Activity	1-2	2-3	2-4	3-5	4-5	5-6	5-7	6-7
Duration	4	6	5	(A)	2	1	4	6
(Days)			S					

At the end of 10 days review was taken which indicates

- 1) Activity 1-2 & 2-4 was completed as originally planned.
- 2) Activity 2-3 & 3-5 delayed drastically and requires 5 & 6 more days respectively for their completion.
- 3) Activity 4-5 & 5-6 is in progress and both require 8 more days for their completion.
- 4) Activity 6-7 yet to start and the original time estimate still appear to be accurate.
- 5) Activity 5-7 requires 8 days in place of 6 days for its completion.
- Q5) a) Define: Cost, Value, Wants & Goods. [6]
 - b) Explain Fixed & Working Capital. [6]
 - c) What is Annuity? Explain how future value of Annuity is Calculated. [6]

OR

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Q6) a)	Define: Price, Wealth,	[6]					
b)	Explain Law of Diminishing Marginal Utility.			[6]			
c)	Explain factors affecting price determination.			[6]			
		5					
Q7) a)	Write a short note on '	-tendering.	[6]				
b)	What do you mean by Appraisal.	of Project [6]					
c)	Explain importance of	Project Feasibility R	eport.	[6]			
	OR						
Q8) a)	Write a Short note on 'Cost Benefits Analysis'.						
b)	Following Data pertains to 2 Projects. Rank the Projects based on						
,	ratio & NPV values			[8]			
	Particulars	Project A	Project B				
	Investment	Rs. 1,10,000/-	Rs. 1,10,000/-				
	Cash Inflow Year 1	Rs. 31,000/-	Rs. 71,000/-				
	Cash Inflow Year 2	Rs. 40,000/	Rs. 40,000/-				
	Cash Inflow Year 3	Rs. 50,000/-	Rs. 40,000/-				
	Cash Inflow Year 4	Rs 79,000/-	Rs. 20,000/-	9			
	Interest Rate	14%	14%				
c)	Explain 'Pay-back Peri	od with example.		[6]			
	x x x						
	$\mathcal{N} \times \times \times \mathcal{N}$						
	Cash Inflow Year 4 Rs. 79,000/- Rs. 20,000/- Interest Rate 14% 14% c) Explain 'Pay-back Period' with example.						
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