PB

Total No. o	of Questions : 4]	200	SEAT No.	:			
PB11			[Tota]	l No. of Pages : 2			
	[6268]-205						
S.E. (Civil Engineering) (Insem)							
PROJECT MANAGEMENT							
(2019 Pattern) (Semester-IV) (201012)							
Time · 1 H	ourl of the			Max Marks · 30			
Instruction	is to the candidates:		C				
	1) Answer Q.1 or Q.2 Q.3	8 or Q.4.)			
	2) Figures to the right indicate full marks.						
3) Neat figures must be drawn wherever necessary.							
4) Assume suitable data if required.							
(01)	Definite State its	ale and a taniation and		[5]			
QI (a)	Define authority. State its characteristics and types. [5]						
0) c)	Write a short note on Categories of project. [5]						
	c) Explain the following principles of management. [5]						
~	ii) Division of work						
	II) DIVISION OF WORK	OR					
02) a)	Explain with a neat sketch	Tine organization	n structure"	[5]			
z -) b)	What do you mean by proje	colife cycle curve? Explain with a neat sketch.[5]					
c)	Vrite a note on PMI and Certified project management professional. [5]						
,							
Q3) a)	1) Listed below are the activities of a project along with duration.						
~ · ·	Activity	Duration (We	eks)				
	1-2	6	~				
	1-3	5	0				
	2-4	10					
	3-4	3	2.0	\rightarrow			
	3-5	4	<u>v v</u>				
1	4-5	6	5 0				
	4-6	2	<u></u>				
	5-6	9	3°				
(i) Draw a network and calculate project duration and highlight critical							

path. Calculate EST, EFT, LST, LFT and total float for the activities. *P.T* ii)

P.T.O.

- [4] What is PERT? Explain Its application. b)
- Define Work Breakdown structure with an example. [3] c)

QR

The following table gives the time estimates for various activities of project: **Q4**) a)

Activity	S /	Duration in days	
	Optimistic time (t_0)	Most like time (t_m)	Pessimistic time (t_p)
1-2	4	10	22
2-3	2	5	8
2-4	2° 4	7	16
2-5	D° 4	7	10
3-5	4	7	22
4-5	5	8	17
5-6	6		18

- Draw the project network and find total project duration and highlight i) critical path.
- Calculate Variance of all the activities. ii)
- What is the probability that project will be completed in 38 days. iii)

[3]

r of What do you mean by dommy activity? What is the use of providing b) dummy activity in a network? [4]

2

Define critical sub-critical and super-critical activities. c)

[6268]-205