Total No	o. of Questions : 8] SEAT No .
	52211 110.
P9132	2 [Total No. of Pages : 2 [6179]-258
	S.E. (Information Technology)
	SOFTWARE ENGINEERING
	(2019 Pattern) (Semester-IV) (214454)
Time: 2	1/2 Hours] [Max. Marks : 70
	ions to the candidates:
1)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.
2)	Neat diagams must be drawn wherever necessary.
3)	Figures to the right side indicate marks.
4)	Assume suitable data, if necessary.
<b>Q1</b> ) a)	What is software architecture? Explain data centered and object oriented
• •	style [9]
b)	Explain the software quality guidelines and attributes of a software design [9]
	OR OR
<b>Q2</b> ) a)	Explain the following fundamental software design concepts: [9]
	i) Abstraction
	ii) Architecture
	iii) Patterns
b)	How is interface analysis done? What parameters are considered? [9]
<b>Q3</b> ) a)	The project manager has obtained the following optimistic, pessimistic
	and most likely times in weeks related to the various activities of a
	power project. Draw a PERT network diagram and clearly mark the

power project. Draw a PERT network diagram and clearly many critical path, also what is the probability of power project to get completed in 32 weeks?

[9]

Activity	Optimistic	Most likely	Pessimistic
Sequence	time	time	time
1-2	6	9	<del>\( \) 18</del>
1-3	5	8	17
2-4	4	7/1	22
2-5	4	77	10
3-4	4	7 %	16
3-5	2	5	8
4-5	4	100	22

b) Explain the typical problems with IT cost estimation

OR

<b>Q4</b> )	a)	What is WBS? Explain how to create WBS along with its benefits [9]			
	b)	What do you mean by project scope? What are the key aspects of pro-	ject		
		scope document?	[8]		
<b>Q</b> 5)	a)	What is a defect? State defect management process	[9]		
	b)	Write a short note on:	[9]		
		i) Black Box testing			
		ii) Regression Testing			
		iii) Beta Testing			
		OR OR			
<b>Q6</b> )	a)	Explain defect life cycle along with diagram also state the important	e of		
		defect reporting	[9]		
	b)	What is software testing? Enumerate seven principles of testing.	[9]		
		Ø			
<b>Q</b> 7)	a)	Explain CASE taxonomy?	[9]		
	b)	What is risk? Explain risk management and risk responses	[8]		
		OR			
<b>Q8</b> )	a)	What is Software Reuse? Explain benefits and Drawbacks of software	vare		
		reuse.	[9]\		
	b)	Write a short note on:	[8]		
		i) JIRA ii) KANBAN	50		
		ii) KANBAN			
		What is Software Reuse? Explain benefits and Drawbacks of software.  Write a short note on:  i) JIRA  ii) KANBAN			
		26.			

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