Total No. of Questions : 8] P660				20	SEAT No. :				
				\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	L [Total N	No. of Pages : 2			
			[5869]	290	[20002]	100 01 1 g 05 0 .			
S.E. (Information Technology)									
SOFTWARE ENGINEERING									
(2019 Pattern) (Semester - IV) (214454)									
			8		(
Time	: 21	½ Hours]	2 >		[N	<i>Max. Marks</i> : 70			
		ons to the candidates:	, , , , , , , , , , , , , , , , , , ,		-				
	<i>1</i>)	Answer Q1 or Q2, Q3	or O4, O5 or O6	6, <i>07 or 08</i> .					
	<i>2</i>)	Neat diagrams must be							
	<i>3</i>)	Figures to the right sid			200				
	<i>4</i>)	Assume suitable data,	if necessary.						
		6.							
Q 1)	a)	What is Software A	Architecture? E	xplain Data	centered and o	bject oriented			
~		architectural style		1	2	[9]			
	b)	Explain guidelines	for compone	nt level des	ign and princi	ples for User			
		Interface design.		3, 89.		[9]			
			OR						
Q2)	a)	What are elements	of Design mode	el? What are	the elements o	of architectural			
		design? Explain De		1		[9]			
	b)	Explain the follow	ing fundament	al software	design concep	ots: [9]			
		i) Abstraction	CAN ON						
		ii) Architecture				Ó			
		iii) Patterns	6.						
()2)	- \	Wilson is Wests Du	64	4	:- :41-4-	1:41- 8			
<i>Q3</i>)	a)	What is Work Br			v is it related	_ \ // _			
	b)	management and e Calculate activity	7		e for given pro	[8] blem. [9]			
	U)	Activity ID	Optimistic		Likely	Pessimistic			
		rich vity 1D	Time (t _o)	Tim		Time (t_n)			
		Job 1	1		3	5			
		Job 2	2	A	8	9			
		Job 3	2	, C	3 (0)	5			
		Job 4	5		8 0 1	10			
		Job 5	11	\bigcup^{r}	150	20			
		Job 6	2	(~	5	8			
		Job 7	3		3	3			
		Job 8	2	29.	4	6			

P.T.O.

<i>Q4</i>)	a)	What is COCOMO II? What areas does COCOMO II address?				
	b)	Explain Information domain values (any 4).	[8]			
<i>Q</i> 5)	a)	Discuss Garvin's eight Quality Dimensions.	[8]			
	b)	List out ISO 9126 Quality Factors.	[9]			
		OR				
Q6)	a)	Enumerate seven Principles of Testing.	[9]			
	b)	How Defects are managed? Explain.	[8]			
Q 7)	a)	What is software SCM repository? Explain the features of tool	cat			
27)	a)	supporting SCM Repository.	[9]			
	b)	What is configuration identification in SCM?	[9]			
		OR OP				
(18)	٥)	What is Software Pauce Evalor banefits and Drawbooks of softw	oro			
Q8)	a)	What is Software Reuse? Explain benefits and Drawbacks of softwareuse.				
	b)	Write short note on:				
	,	i) Test Driven Development (TDD).	7			
		i) Test Differi De Vetopinent (TDD).				
		ii) Collaborative development.				
		Co, Mo.				
		6.1				
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