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QP Code: 6308

Tim	e: 3 Hrs	Max Marks: 80	0
N.B	: (1) Question No. 1 is compulsory.		
	(2) Attempt any threequestions out of remaining five.		
1.	A distance learning institute decides to use e-learning software to ease functioning of the program. Through this e-learning tool students can various courses, appear for online exams, download study materia assignments online, view lecture videos etc. The faculty can upload study conduct exams, teach one or many courses. The institute can check student a information, collect fees, pay salary, display results and so on. Create an S.	register to al, upload materials, and faculty	0.
	institute that includes the following	0,	
	1. Product perspective		
	2. Scope and objective		
	3. Functional requirements (atleast 3) •	Z), .	
	4. Non-functional requirements		
2	Attempt any four (04).		
	(a) Define Software Engineering. Explain in brief the software process fram		
	(b) Discuss on Modularity and Functional Independence fundamentals of d concepts.	lesign 5	
	(c) Explain cyclomatic complexity. How is it computed?	5	
	(d) Discuss the different categories of risk that help to define impact values table.	s in a risk 5	
	(e) Briefly explain Unit and Integration Testing in the OO Context.	5	
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3.	(a) Explain in brief the different types of coupling and cohesion. Give one example of high cohesion and low coupling		0
	(b) What is FTR in SQA? What are its objectives? Explain the steps in FTF	č. 10	0
4.	(a) What is Agility in context of software engineering? Explain Extreme Programming (XP) with suitable diagram.	10	0
	(b) Explain different techniques in White Box Testing.	10	0

Explain the various steps in Risk Management with suitable diagram. Identify the 10

(b) Explain different architectural styles with suitable brief example for each.

6. (a) Explain the change control and version control activities in SCM.

risks associated with delayed projects.

(b) Explain TDD with its advantages.