## 1100CST381122101

Reg No.:	Name:
	M TECHNOLOGICAL UNIVERSITY *
Fifth Semester B.Tech Degree	(Minor) Examination December 2021 (2019 admir.)
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## Course Code: CST 381

Course Name: CONCEPTS IN SOFTWARE ENGINEERING

Max. Marks: 100

**Duration: 3 Hours** 

## PART A

		(Answer all questions; each question carries 3 marks)	Marks	
1		What are the advantages and disadvantages of waterfall model?		
2		Explain about agility process model.		
3		How does Personas and User stories help the design team?		
4	Mention any three characteristics that could be used to evaluate a software		3	
		design.		
5	What are the different types of software licenses?		3	
6	What is difference between white box and black box testing?		3	
7	Mention some of the common risks in software development projects?		3	
8		How does Kanban methodology satisfy the goals of Lean approach?	3	
9	9 Define software Quality. What is software quality dilemma in software		3	
		engineering?		
10		Compare ISO and SEI-CMM models.	3	
		PART B		
		(Answer one full question from each module, each question carries 14 marks)		
		Module -1		
11	a)	What is the use of software development process models? List out the advantages	7	
		and disadvantages of Incremental model.		
	b)	How is Agile different from traditional project management?	7	
12	a)	How does Boehm's Spiral Model handle the need for risk management?	6	
	b)	List out the principles of Agile Manifesto.	8	
Module -2				
13	a)	Why is an SRS needed in a software project? What are the advantages with it?	7	

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	b)	What is the purpose of requirement elicitation? Describe various techniques for	7
		requirement elicitation.	
14	a)	Explain design within the context of software engineering.	8
	b)	What is component level design? Which models are required for deriving	6
		component level design?	
		Module -3	
15	a)	What do you understand by System Testing? What are the different kinds of	8
		system testing that are usually performed on large software testing?	
	b)	List out the benefits of automation in DevOps.	6
16	a)	What are the five steps of Test Driven Development?	6
	b)	What are the main software maintenance activities? Explain.	8
		Module -4	
17	a)	Explain various risks associated with software project. How are they managed?	7
	b)	Discuss the COCOMO Model as cost estimation Model.	7
18	a)	Discuss Software configuration Management plan and its need.	7
	b)	What is Scrum Framework? How does it work?	7
		Module -5	
19	a)	Explain briefly Software Quality Assurance tasks.	7
	b)	What do you mean by software metrics? Explain with an example.	7
20	a)	Explain Software Process Improvement with various elements of SPI framework.	7
	b)	Write a short note on the capability maturity model.	7