Code No: **20AD4T03** ( **R20** )

## II B. TECH II SEMESTER REGULAR EXAMINATIONS, JULY - 2022 SOFTWARE ENGINEERING (CSE-ARTIFICIAL INTELLIGENCE AND DATA SCIENCE)

Time: 3 hours Max. Marks: 70

		Note: Answer ONE question from each unit (5 × 14 = 70 Marks)	
		UNIT-I	
1.	a)	Explain the difference between generic and customized software.	[7M]
	b)	Illustrate RUP and Agile Process models with neat sketch.	[7M]
		(OR)	
2.	a)	Define software engineering and explain its challenges.	[7M]
	b)	What are the activities of phased software life cycle? Explain.  UNIT- II	[7M]
3.	a)	What are the four essential elements of effective software project management? Explain.	[7M]
	b)	Explain the various activities of project panning.	[7M]
		(OR)	
4.	a)	With a neat diagram explain the project life cycle.	[7M]
	b)	What are the advantages of the function point analysis? How does a function point overcome the limitations of the LOC based measurement?	[7M]
UNIT-III			
5.	a)	With a neat diagram explain the requirements engineering process.	[7M]
	b)	Explain the structure of Software Requirements document.	[7M]
		(OR)	
6.	a)	Compare and contrast Data oriented and Object-oriented Analysis.	[7M]
	b)	Define Data Flow diagram. What are various symbols used in DFD? And Draw the DFD for cash withdrawal from an ATM.	[7M]
		UNIT-IV	
7.	a)	Enumerate the characteristics of a good software design.	[7M]
	b)	Differentiate between function-oriented and object-oriented methodologies with suitable examples.	[7M]

(OR)

- 8. a) Explain the Software design concepts and principles. [7M]
  - b) Compare and contrast the traditional coding process and Test- [7M] driven development process.

## UNIT-V

- 9. a) What is black box testing? Explain the technique specifying [7M] rules and its usage with the help of an example.
  - b) Explain various software quality factors. [7M]

(OR)

- 10. a) What are the most popular debugging approaches? Explain. [7M]
  - b) Explain the different categories of software maintenance. [7M]

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