PVP 20

Code: 20CS3501

III B.Tech - I Semester – Regular Examinations - DECEMBER 2022

SOFTWARE ENGINEERING
(COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.
2. All parts of Question must be answered in one place.

BL – Blooms Level CO – Course Outcome

			BL	CO	Max. Marks
UNIT-I					
1	a)	When you know programming, explain the need to learn software engineering concepts.	L2	CO1	7 M
	b)	Identify the phases of unified process model in software development.	L2	CO1	7 M
OR					
2	a)	Demonstrate the merits of using Prototype model in Software Development Process.	L3	CO1	7 M
	b)	Explain the spiral process model with advantages and disadvantages.	L2	CO1	7 M
UNIT-II					
3	a)	Analyze the concept of elements of the requirements model.	L4	CO2	7 M
	b)	Infer the process of analyzing the requirements for a given application to pave the way for design.	L2	CO2	7 M

OR					
4	a)	Discriminate and design a formal Use Case diagram for Hospital management system.	L4	CO3	7 M
	b)	Briefly explain the various elements of the Analysis Model in requirement engineering.	L2	CO2	7 M
UNIT-III					
5	a)	Highlight the various attributes and guide lines of software design.	L2	CO2	8 M
	b)	Explain modularity, information hiding and refactoring.	L2	CO2	6 M
OR					
6	a)	Differentiate between component level and deployment level design elements.	L4	CO3	7 M
	b)	Briefly discuss the design model in software development with a neat diagram.	L2	CO2	7 M
UNIT-IV					
7	a)	Briefly demonstrate various software testing strategies. Highlight the reasons why we do testing?	L3	CO2	7 M
	b)	Differentiate between functional and control structure testing along with examples.	L4	CO4	7 M
OR					
8	a)	Explain the equivalence partitioning testing technique with the help of an example.	L2	CO4	7 M
	b)	Differentiate between unit and integration testing strategies along with examples.	L4	CO2	7 M

UNIT-V					
9	a)	Illustrate the various risk management activities.	L3	CO4	7 M
	b)	Interpret the different types of risks which can affect a software project.	L3	CO2	7 M
OR					
10	a)	Analyze the major software quality assurance activities.	L4	CO3	7 M
	b)	Briefly describe what is RMMM plan. Explain with the help of an example.	L2	CO4	7 M