

Code: 20IT3302

**II B.Tech - I Semester –Regular / Supplementary Examinations  
DECEMBER 2022**

**SOFTWARE ENGINEERING  
(INFORMATION TECHNOLOGY)**

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
<b>UNIT-I</b>					
1	a)	What is a myth? Give a focus on various software myths regarding Management and Practitioner.	L2	CO1	7 M
	b)	Explain briefly about waterfall model. Give its merits and demerits.	L2	CO1	7 M
<b>OR</b>					
2	a)	Explain about the Agile process and its principles.	L2	CO1	7 M
	b)	Describe about a generic process model for software engineering and explain the framework activities.	L2	CO1	7 M
<b>UNIT-II</b>					
3	a)	Differentiate between functional and non-functional requirements.	L3	CO2	7 M

	b)	What is coupling? Describe briefly about the categories of coupling.	L2	CO2	7 M
<b>OR</b>					
4	a)	Describe about Software Requirement Specification (SRS) and the characteristics needed for good SRS.	L2	CO2	7 M
	b)	Describe about software design process. What approaches are needed for software design?	L2	CO2	7 M
<b>UNIT-III</b>					
5	a)	Describe the essential features of function-oriented design methodologies.	L2	CO3	7 M
	b)	What are the types of user interface? Explain Golden Rules to Design the User Interface.	L2	CO3	7 M
<b>OR</b>					
6	a)	What is structured analysis? What principles are used for structured analysis? Design a Data Flow Model of a Car Assembly Unit.	L3	CO3	7 M
	b)	Explain briefly about the Characteristics of Good User Interface.	L2	CO3	7 M
<b>UNIT-IV</b>					
7	a)	Explain the general coding standards that are used by the developers to write the code.	L2	CO4	7 M
	b)	What is testing? Explain the different levels of testing.	L2	CO4	7 M
<b>OR</b>					

8	a)	Differentiate between Black box testing and white box testing with example.	L3	CO4	7 M
	b)	What is code review? Explain the types of code review.	L2	CO4	7 M
<b>UNIT-V</b>					
9	a)	Explain about the software Reliability issue.	L2	CO4	7 M
	b)	What is statistical testing? Describe the steps required for statistical testing. Discuss the advantages and disadvantages of statistical testing.	L2	CO4	7 M
<b>OR</b>					
10	a)	What is the need of software maintenance? Explain the types of maintenance.	L2	CO4	7 M
	b)	Explain about the Evolution of quality management system.	L2	CO4	7 M