## 322654(22)

## B. E. (Sixth Semester) Examination, Nov.-Dec. 2021

(New Scheme) Sharing and Sharing

(CSE Branch)

## SOFTWARE ENGINEERING & PROJECT MANAGEMENT

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: All questions are compulsory. Part (a) from each question is essential and carries 2 marks.

Any two parts may be attempted out of (b), (c) and (d). Each part is of 7 marks.

## Unit-I

1. (a) What are the disadvantage and limitation of waterfall model?

2

1	b)	Described WIN WIN SPIRAL model for software	
4 . 100		development with its advantages and limitations.	7
(	(c)	How the quality and productivity factors affect the	
		software development?	7
(	(d)	Explain the CMMI model for software quality	
		assurance in detail.	7
		Unit-II	
2. (	(a)	What are the different Non functional requirements	
		in software?	2
(	(b)	Briefly explain the requirement elicitation and analysis	
		during s/w development.	7
	(c)	Explain the context model and object model for any software.	7
	(d)	Draw the behavioural model for ONLINE product	
		purchase through E Commerce sites in at least 10 levels.	7
		Unit-III	
2		Decay Madeland and Abstraction	2
3.	(a)	Define Modularization and Abstraction.	2
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	(b)	Define Coupling and Cohesion and order their different	
		types from loose to Highest strength.	7
	(c)	Describe Hallstead Software Science for effort and	
		time calculation of software development.	7
	(d)	Explain the Cyclometic Complexity calculation of any	
		flow chart ith suitable example.	7
		Unit-IV	
4.	(a)	Define Verification and Validation.	2
	(b)	Explain the different methods of Software Quality	
		Measurement.	7
	(c)	Explain the software maintenance metrics in details.	7
	(d)	Explain different methods of software testing in	
		details.	7
		Unit-V	
5.	(a)	Name the different tools used for designing a s/w	
		project schedule.	2

(b)	What is project charter and what is its relevance for any s/w project?	7
	any s/w project?	/
(c)	Explain Proactive and Reactive Risk management	
	strategy in detail.	7
(d)	What is Software Reliability? How it is measured	
	and improved?	7