2023

B.A./B.Sc.

Fourth Semester

CORE – 9

COMPUTER SCIENCE

Course Code: CSC 4.21 (Software Engineering)

Pass Mark: 28

Total Mark: 70

Time: 3 hours

100				
An	swer <u>five</u> questions, taking <u>one</u> from each unit.			
	UNIT-I			
1.		6 8		
2.	(a) What is SDLC? Explain the seven phases of SDLC.(b) Write a note on the spiral model.	8 6		
UNIT-II				
3.	• • • • • • • • • • • • • • • • • • • •	2		
4.	(b) Explain with the help of illustrations 0-level, 1-level, and 2-level	8 6		
	UNIT-III			
5.	 (a) What do you mean by software quality management? What are its core components? (b) Explain the activities performed by a SQA group. 	5 9		
6.	(a) What are software metrics? Explain the classification of software metrics. 1+3=	4		

	` ′	Why do we need software measurement?	oi. 7
		UNIT-IV	
7.		Explain the fundamental software design concepts. What is box-diagram? Give an example of a box-diagram vs a flowchart.	7 +5=7
8.		Explain the different types of architectural patterns. What do you mean by transform mapping? Explain in brief transform flow and transaction flow.	10 +2=4
		UNIT-V	
9.	(b)	What is software testing? What are the types of software testing? What is the classification of manual testing? Write five differences between white-box and black-box testing.	+2=3 6 . 5
10.		List and explain the different levels in software testing. Write a note on basis path testing.	10 4

-2-