Name:
Student University Roll No.: Printed Pages: 01

School of Engineering

First Sessional Examination, Odd Semester (AS: 2022-23)

B. Tech : (CSE)

Year: 3rd Year Semester: 5th

Course Title: Software Engineering M.M.: 30

Course Code: BCS3501 Time: 1 hr

Instructions if any: Read the question Carefully.

	SECTION 'A' Q.N.1. Attempt all parts of the following:	Course Objective	Marks
a)	What do you mean by software engineering?	CO1	1
b)	What are various categories of software?	CO1	1
c)	What are the disadvantages of Prototyping model?	CO1	1
d)	Write a short note on Software Crisis.	CO1	1
e)	What is software estimation cost?	CO1	1

	SECTION 'B' Q.N.2. Attempt any two parts of the following:	Course Objective	Marks
a)	Explain the spiral life cycle with merits and demerits.	CO1	7.5
b)	What is software maintenance? What is the need of the software maintenance?	CO1	7.5
c)	Explain Software requirement specification and its steps.	CO2	7.5
d)	What is visual modeling in software engineering?	CO1	7.5

	SECTION 'C' Q.N.3. Attempt any one part of the following	Course Objective	Marks
a)	Suppose a project was estimated to be 400 KLOC. Calculate the effort and development time for each of the three model - organic, semi-detached and embedded.	CO1	10
b)	Explain software development life cycle (SDLC). Discuss various activities during SDLC.	CO1	10
c)	Explain formal requirement specifications and formal requirement verification?	CO2	10

Table 1: Mapping between COs and questions

(Number of COs may vary from course to course)

COs	Questions Numbers	Total Marks
CO1	1a,1b,1c,1d,1e,2a,2b,2d,3a,3b	47.5
CO2	2c,3c	17.5