



## V Semester B.C.A. Degree Examination, November/December 2014 (Y2K8 Scheme) COMPUTER SCIENCE BCA 501 – Software Engineering

100 marks-2013-14 & Onwards
90 marks-Prior to 2013-14

Time: 3 Hours

Max. Marks: 90/100

Instructions: 1) Section A, B, C is common to all. Section D is applicable to the students who have taken admission in 2011-2012.

2) 100 marks for students of 2011-2012 and onwards 90 marks for repeaters prior to 2011-2012.

## SECTION - A

Answer any ten questions. Each question carries 2 marks.

 $(10 \times 2 = 20)$ 

- 1. Define Software.
- 2. What do you mean by Software Requirement Definition?
- 3. Write short note on factors effecting feasibility study.
- 4. What is SDLC? Briefly explain.
- 5. What are the different types of system integration?
- 6. What are the characteristics of a prototype?
- 7. What is cohesion?
- 8. Define DFD.
- 9. Briefly explain about GUI.
- 10. Differentiate between Fault and Failure.
- 11. Define software reliability matrix.
- 12. Define risk in Software Engineering.

## 

## SECTION - B

- "		SECTION – B		
5	An	nswer any five questions. Each question carries 5 marks. (	5×5=	25)
	13.	. Explain iterative enhancement model of software process.		*
	14.	. Explain the system design process with diagram.		
	15.	. Explain the IEEE structure of an SRS document.		
	16.	. Explain the Requirement Validation techniques.		
	17.	. Describe two types of prototyping with advantages and disadvantages.		
	18.	. What are the design principles ? Explain.		
	19.	. Differentiate between white box and black box testing.	· , y,	
	20.	. Explain the different types of software maintenance.		
		SECTION - C		
. 1	An	swerany 3 questions. (3	×15=	45)
. 1	21.	. Explain various steps of SDLC with a neat diagram.		15
1	22.	. Explain the requirement Engineering process.		15
2	23.	<ul><li>a) Explain two types of Reliability Growth Modelling.</li><li>b) Explain Reliability Matrix.</li></ul>		7
2	24.	<ul><li>a) Explain the contents of test plan template.</li><li>b) What are the levels of Testing?</li></ul>		6
2	25.	a) Explain COCOMO Model. b) Write a note on Quality Assurance.		10 5
		SECTION – D	ah A	0
. /	Ans	swer <b>any one</b> question.		
2	26.	Explain system Engineering process with a diagram.		
2	27.	Discuss on requirement elicitation and analysis process.		