

V Semester B.C.A. Degree Examination, Nov./Dec. 2015 (Y2K8 Scheme) (F + R) BCA 501: SOFTWARE ENGINEERING (100 - 2013-14 and Onwards) (90 - Prior to 2013-14)

Time: 3 Hours Max. Marks: 90/100

Instructions: Section – A, B, C is common to all. Section – D is applicable to the students who have admission in 100 marks.

SECTION - A

Answer any ten questions. Each question carries 2 marks.

(10×2=20)

- 1. What is software product? Name two types of software product.
- 2. What is the difference between software engineering and system engineering?
- 3. What is system decommissioning?
- 4. What are functional requirements? Give one example.
- 5. Define cohesion and coupling.
- 6. What is test case? Give one example for test case.
- 7. Define volatile requirement.
- 8. List different phases of project management.
- 9. What is quality assurance? What is the purpose of quality assurance?
- 10. Define reliability. Mention its types.
- 11. Write any two characteristics of GUI.
- 12. What is fault detection and recovery?

SECTION - B

Answer any five questions. Each question carries 5 marks.

 $(5 \times 5 = 25)$

- 13. Discuss the challenges of software engineer.
- 14. Explain system procurement process in detail.



- 15. Explain prototyping model.
- 16. Describe any two styles of user system interaction.
- 17. What is risk identification? Explain its techniques.
- 18. Write a short note on black box testing.
- 19. Explain different types of interface errors.
- 20. Explain different types of software reliability metrics.

SECTION - C

SECTION - C		
Ans	wer any 3 questions : (3×15=	45)
21.	Explain spiral model with neat diagram. Discuss advantages and disadvantages.	15
22.	a) Explain requirement elicitation and analysis process.	8
	b) Discuss object oriented design process in detail.	7
23.	a) Explain IEEE structure of SRS.	10
	b) Write SRS for library system.	5
24.	a) Explain the contents of test plan.	8
	b) Explain different levels of testing.	7
25.	a) Explain quality control in detail.	8
	b) Write a short note on software productivity.	7
	SECTION - D. Section of the state of the sta	
Answer any 1 question. Each question carries ten marks. (1×10=10)		10)
26. Explain the fundamental process activities involved in SDLC with neat diagram. 10		
27.	Write a short note on :	
	a) Context model.	5
	b) COCOMO model.	5