

V Semester B.C.A. Degree Examination, Nov./Dec. 2017 (2016-17 and Onwards) (CBCS) (F + R) BCA 502 : SOFTWARE ENGINEERING

Time: 3 Hours

Max. Marks: 100

Instruction: Answerall Sections.

SECTION - A

I. Answer any ten questions. Each question carries two marks.

(10×2=20)

- 1) Define system.
- 2) What are the two types of software products?
 - 3) What is system decommissioning?
 - 4) Mention two advantages of prototype model.
 - 5) Define cohesion.
- 6) Define object and class.
 - 7) What are the characteristics of GUI?
- 8) Define SRS.
 - 9) Define Risk.
 - 10) Differentiate between verification and validation.
- 11) Define reliability.
 - 12) What is a test case?

SECTION-B

II. Answer any five questions. Each carries five marks.

 $(5 \times 5 = 25)$

- 13) Explain waterfall model with its advantages and disadvantages.
- 14) What are volatile requirements? Explain the classification of volatile requirements.
- 15) Explain the different phases of system design process with a diagram.
- 16) What is fault tolerance? Explain the two approaches to software fault tolerance.
- 17) Differentiate between black box and white box testing.



- 18) Explain the quality characteristics of design.
- 19) Describe different requirement validation checks.
- 20) Explain types of software maintenance.

SECTION - C

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III. Answeran	y three questions. Each question carries fifteen marks.	/0	
engi	ain requirement elicitation and analysis process of requirement neering with diagram.	(3× ∍nt	15=45)
b) Expl	ain IEEE structure of SRS document.		(0.7)
22) a) Expl	ain design principles in detail.		(8+7)
b) Expl	ain two types of prototyping with advantages and disadvantages	200	(0.7)
20) a) Expi	all different reliability metrics.	jes.	(8+7)
b) Expla	ain reliability growth modeling.		(7.0)
24) a) Write	a note on object oriented design concept.		(7+8)
b) Expla	ain different styles of user system interaction		(7+8)
25) a) Expla	in various levels of testing.	i.	(7+0)
b) Expla	in the contents of test plan template.		(6+9)
	SECTION-D		
IV. Answerany o	one question. Each carries ten marks.		
26) Explain COCOMO model in detail. (1x1)			0=10)
	ystem engineering process with a neat diagram.		
	at diagram.		