

## V Semester B.C.A. Degree Examination, Nov./Dec. 2016 (CBCS) (2016-17 and Onwards) COMPUTER SCIENCE

BCA 502 : Software Engineering

Time: 3 Hours Max. Marks: 100\*

Instruction: Answer all Sections.

## SECTION - A

Answer any ten questions. Each question carries two marks: (10×2=20)

b) Explain evolutionary prototyping with a diagram.

- 1. What is customized software product? Give an example.
  - 2. What is COTS?
  - 3. What is feasibility study?
  - 4. What is 4GL?
  - 5. Define coupling.
  - 6. What are OOD and OOP?
  - 7. What is user interface prototyping?
  - 8. Difference between fault and failure.
  - 9. What do you mean by cyclometic complexity?
- 10. What is interface testing?
- 11. Define quality planning.
- 12. What is software maintenance?

## 26. Explain waterfail model with a neat diagram. Mention its ments and dements. B - NOITOBS

Answer any five questions. Each question carries five marks: (5×5=25)

- 13. Discuss the challenges of software engineer.
- 14. Write a note on system realibility engineering.
- 15. Explain the phases of requirement elicitation and analysis process.

P.T.O.



ime: 3 Hours

- 16. Explain the methods for object identification.
- 17. Write a short note on user inerface design.
- 18. Explain realibility growth modeling with its advantages.
- 19. Explain thread testing with a diagram.
- 20. Explain quality assurance in brief.

## SECTION - C

Ans	swer <b>any three</b> questions. <b>Each</b> question carries <b>fifteen</b> marks : (3×15	=45)
21.	Explain spiral model with a neat diagram. Discuss its advantages and disadvantages.	15
22.	<ul><li>a) Explain various requirement validation techniques.</li><li>b) Explain evolutionary prototyping with a diagram.</li></ul>	§ 9 § 6
23.	<ul><li>a) Explain different types of cohesion with example.</li><li>b) Explain functional oriented design with example.</li></ul>	<sup>4</sup> 9
24.	<ul><li>a) Describe the five types of user system interaction.</li><li>b) Explain four types of software realibility matrices.</li></ul>	8
25.	<ul><li>a) Explain any two types of software testing.</li><li>b) Explain quality control in brief.</li></ul>	8 7
	SECTION – D  SECTION – D  Online quality planning.	
Answer any one question. Each question carries ten marks: (1×10=10)		
26.	Explain waterfall model with a neat diagram. Mention its merits and demerits.	10
27.	Write short note on :  a) Risk Management  b) COCOMO model.	5 .e.f 5
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