

V Semester B.C.A. Degree Examination, November/December 2018 (CBCS) (F + R) (2016-17 and Onwards) COMPUTER SCIENCE

BCA 502 : Software Engineering

Time: 3 Hours Max. Marks: 100

Instruction : Answer all Sections.

SECTION - A SECTIO

I. Answer any ten questions.

(10×2=20)

- 1) What is software product? Name two types of software product.
 - 2) Define system engineering.
 - 3) What is feasibility study?
 - 4) Define prototype model.
 - 5) What is coupling? Name two types of coupling.
 - 6) What are OOD and OOP?
 - 7) What are the advantages of GUI?
 - 8) Define Test case.
 - 9) Differentiate between verification and validation.
- 10) Define equivalence class partitioning.
- 11) Define quality assurance.
- 12) Define project management.

SECTION - B

II. Answer any five questions.

 $(5 \times 5 = 25)$

- 13) Write a note on risk management.
- 14) Describe system procurement process.
- 15) Explain the IEEE structure of SRS document.
- 16) Explain evolutionary and throw-away prototyping.
- 17) Describe design principles.
- 18) Write a note on reliability growth modeling.
- 19) Explain the contents of test plan.
- 20) Write a note on quality control.



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III. Answer any three questions.		(3×15=45)
21)	a) Explain the different phases of SDLC.	
	b) Explain system design process with a diagram.	(8+7)
22)	Explain the requirement engineering process.	15
23)	a) Explain function oriented design.	
	b) Explain different styles of user system interaction.	(8+7)
24)	a) Explain different types of cohesion.	
	b) Explain software reuse.	(8+7)
25)	a) Describe clean room software development process.	
	b) Explain different types of software maintenance.	(8+7)

SECTION - D

(6) Explain evolutionary and throw-away prototyping

IV. Answer any one question.

(1×10=10)

- 26) Explain spiral model with a neat diagram. Mention its merits and demerits.
- 27) Explain COCOMO model in detail.