



GN-451

V Semester B.C.A. Examination, December - 2019
(CBCS) (Y2K14) (F+R)

COMPUTER SCIENCE

BCA 502 : Software Engineering

Time : 3 Hours

Max. Marks : 100

Instruction : Answer *all* Sections.

SECTION - A

I. Answer **any ten** questions.

10x2=20

1. What is Software Engineering ?
2. Differentiate between generic product and customised product.
3. Define requirement engineering process.
4. What are the objectives of prototyping ?
5. Define ethnography.
6. Differentiate between Generic model and Reference model.
7. What is adaptability ?
8. What are the characteristics of GUI/UI ?
9. What is RGM ?
10. What is the difference between failure and fault ?
11. What is Alpha testing ?
12. Define Quality Assurance.

P.T.O.



SECTION - B

- II. Answer any five questions. 5x5=25**
- 13. Explain IEEE structure of SRS.
 - 14. Write a note on risk management.
 - 15. What is coupling ? Explain types of coupling.
 - 16. Explain object-oriented and function oriented design.
 - 17. What do you mean by fault tolerance ? Write a detailed note on approaches to fault tolerance.
 - 18. Describe clean room software development process with its advantages and disadvantages.
 - 19. Describe Design principles.
 - 20. Explain different types of software maintenance.

SECTION - C

- III. Answer any three questions. 3x15=45**
- 21. (a) Explain the different phases of SDLC. 8+7
(b) Explain the classification of Non-functional requirements.
 - 22. (a) With neat diagram explain Spiral model. 10+5
(b) Write a short notes on User-Interface design activities.
 - 23. (a) What is Software reliability metrics ? Explain the different types of software reliability metrics. 10+5
(b) Explain the classification of failures.
 - 24. (a) Write a note on verification and validation model. 8+7
(b) Explain evolutionary and throw-away prototyping.
 - 25. (a) Explain COCOMO model in detail. 10+5
(b) What is Cohesion ? Explain different types of Cohesion in brief.

SECTION - D

- IV. Answer any one question. 1x10=10**
- 26. Explain the requirement engineering process with neat diagram.
 - 27. Explain different test strategies.

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