NS – 612

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)**

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 ?

SECTION – B

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.

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

Answer **any three** questions. **Each** question carries **fifteen** marks : **(3×15=45)**

21. Explain spiral model with a neat diagram. Discuss its advantages and disadvantages. **15**

22. a) Explain various requirement validation techniques. **9**
    b) Explain evolutionary prototyping with a diagram. **6**

23. a) Explain different types of cohesion with example. **9**
    b) Explain functional oriented design with example. **6**

24. a) Describe the five types of user system interaction. **8**
    b) Explain four types of software realibility matrices. **7**

25. a) Explain any two types of software testing. **8**
    b) Explain quality control in brief. **7**

SECTION – D

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 **5**
    b) COCOMO model. **5**

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