



UN – 322

**V Semester B.C.A. Degree Examination, Nov./Dec. 2015  
(Y2K8 Scheme) (F + R)**

**BCA 501 : SOFTWARE ENGINEERING  
(100 – 2013-14 and Onwards) (90 – Prior to 2013-14)**

Time : 3 Hours

Max. Marks : 90/100

**Instructions :** *Section – A, B, C is common to all. Section – D is applicable to the students who have admission in 100 marks.*

**SECTION – A**

Answer **any ten** questions. **Each** question carries **2** marks.

**(10×2=20)**

1. What is software product ? Name two types of software product.
2. What is the difference between software engineering and system engineering ?
3. What is system decommissioning ?
4. What are functional requirements ? Give one example.
5. Define cohesion and coupling.
6. What is test case ? Give one example for test case.
7. Define volatile requirement.
8. List different phases of project management.
9. What is quality assurance ? What is the purpose of quality assurance ?
10. Define reliability. Mention its types.
11. Write any two characteristics of GUI.
12. What is fault detection and recovery ?

**SECTION – B**

Answer **any five** questions. **Each** question carries **5** marks.

**(5×5=25)**

13. Discuss the challenges of software engineer.
14. Explain system procurement process in detail.

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15. Explain prototyping model.
16. Describe any two styles of user system interaction.
17. What is risk identification ? Explain its techniques.
18. Write a short note on black box testing.
19. Explain different types of interface errors.
20. Explain different types of software reliability metrics.

### SECTION – C

Answer **any 3** questions :

**(3×15=45)**

21. Explain spiral model with neat diagram. Discuss advantages and disadvantages. **15**
22. a) Explain requirement elicitation and analysis process. **8**  
b) Discuss object oriented design process in detail. **7**
23. a) Explain IEEE structure of SRS. **10**  
b) Write SRS for library system. **5**
24. a) Explain the contents of test plan. **8**  
b) Explain different levels of testing. **7**
25. a) Explain quality control in detail. **8**  
b) Write a short note on software productivity. **7**

### SECTION – D

Answer **any 1** question. **Each** question carries **ten** marks.

**(1×10=10)**

26. Explain the fundamental process activities involved in SDLC with neat diagram. **10**
27. Write a short note on :
  - a) Context model. **5**
  - b) COCOMO model. **5**