

**BACHELOR OF COMPUTER
APPLICATION III YEAR
EXAMINATION, 2010**

Paper — BCAD-501

SOFTWARE ENGINEERING

Time : 2½ Hours

Maximum Marks : 70

*(Write your Roll No. at the top immediately
on receipt of this question paper.)*

*Answer ALL questions of Section I, any FIVE questions
of Section II and any THREE questions of Section III.*

SECTION - I (1 × 10 = 10)

Fill in the blanks :

1. The model which tries to combine the benefits of both prototyping and the waterfall model, known as _____.
2. DFD is composed of _____ basic symbols.
3. CMM stands for _____.
4. PERT stands for _____.
5. Software metrics deals with _____ of software product and the process by which it is developed.

P.T.O.

6. Cyclomatic Complexity can be measured through _____ formula.
7. Risk is defined as _____.
8. Coupling can be used to indicate the degree of _____ among the components of a software system.
9. Specification based testing is known as _____.
10. Code based testing is known as _____.

SECTION - II (6 × 5 = 30)

11. What are the limitations of Waterfall model ?
12. What is DFD ? Discuss its components.
13. Differentiate between black box and white box testing
14. Explain CMM model and its purpose.
15. Write the steps of Risk management in project management process.
16. What is prototyping model ?
17. Discuss the usefulness of ER diagram.

18. What is random testing ?
19. What are the types of Team organization for software development ?

SECTION - III (3 × 10 = 30)

20. Discuss Spiral model along with its benefits as compared to other process models.
21. Discuss different types of Metrics used in software engineering.
22. Describe different types of phases in software development and write the outputs of each phase.
23. List basic issues that should be addressed in SRS and the characteristics of SRS.
24. What are the phases of System design ? Discuss.
25. What is testing ? What are the principles of good testing ?