

This question paper contains 2 printed pages]

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S. No. of Question Paper : 227

Unique Paper Code : 234551

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Name of the Paper : Software Testing—CA-3A

Name of the Course : B.A. (Prog.) Computer Application

Semester : V

Duration : 3 Hours

Maximum Marks : 45

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

Section A is compulsory.

Attempt any *three* questions from Section B.

Each question carries 10 marks.

Section A

1. All questions are compulsory and carries equal weightage of 3 marks.

- (a) For the scientific software systems which software process model may be used ? 3
- (b) What do you mean by Bug and Debugging ? 3
- (c) Under what circumstances White Box Testing in used ? 3
- (d) What should be the value of Cyclomatic Complexity for a good designed software ? 3
- (e) Explain Gray Box Testing. 3

Section B

Attempt any *three* of the following. Each question carries equal marks.

2. (a) Explain Waterfall Software Process Model. State the advantages and disadvantages of the same. 5

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- (b) Explain Spiral Software Process Model. State the advantages and disadvantages of the same. 5
3. (a) Explain Testing as a process. 5
- (b) Explain the various phases of software development life cycle. 5
4. (a) Differentiate between Unit Testing, System Testing, Integration Testing. 5
- (b) Differentiate between Dynamic and Static Testing. 5
5. (a) Explain the various test metrics and measurements. 5
- (b) What are the uses of software testing tools ? 5
6. Write short notes on any *two* of the following : 2×5=10
- (a) Throw Away Prototyping Model
- (b) Types of Software Maintenance
- (c) Feasibility Study.