

This question paper contains 2 printed pages]

Roll No.

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S. No. of Question Paper : 129

Unique Paper Code : 234551

E

Name of the Paper : Software Testing

Name of the Course : B.A. (Programme)

Semester : V

Duration : 3 Hours

Maximum Marks : 45

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

Question No. 1 is compulsory.

Attempt any 3 questions from Q. No. 2 to Q. No. 6.

1. Answer the following questions :

- (i) Explain the importance of software testing in software engineering. 2
- (ii) Write down the steps of risk management. 3
- (iii) What are the basic characteristics of testable software ? 3
- (iv) What is regression testing ? When is it done ? 3
- (v) Differentiate between automated and manual testing. 2
- (vi) When should we choose prototyping development model ? 2

P.T.O.

2. Consider a document management system in which the soft copy of the project reports prepared by the students are stored. The marks awarded on the projects are also stored in the system. Any student can log into the system and see only his/her marks. Similarly, a teacher can also login to the system and enter/edit/view marks of his/her students. Explain the program working in your own words and identify what testing techniques and test data would you use for testing program. Also, justify your answer. 10
3. (a) State the guidelines for deciding what test cases can be included for acceptance testing. 5
- (b) State the guidelines for deciding the integration method i.e. to select top-down or bottom-up integration in integration testing. 5
4. (a) Explain Dijkstra's doctrine. 2
- (b) Differentiate between white box testing and black box testing techniques. Also list at least three tests from each category. 4
- (c) Explain the factors governing performance testing. 4
5. (a) Name any *three* SDLC models. Explain any *one* of them in detail. 6
- (b) Differentiate between code coverage and code complexity testing. 4
6. Write short notes on the following : 10
- (a) System Testing
- (b) Beta Testing.