

This question paper contains 2 printed pages]

Roll No.

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S.No. of Question Paper : 156

Unique Paper Code : 234551

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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) Differentiate between verification and validation. 2
- (ii) What are the attributes of a good test ? 2
- (iii) What are the basic characteristics of a testable software ? 2
- (iv) What is regression testing ? When is it done ? 3
- (v) Which software tests would you apply for testing Automated Air Traffic Control system and why ? 2
- (vi) Differentiate between automated and manual testing. 2
- (vii) When should we choose prototyping development model ? 2

P.T.O.

2. Consider a student result management system in which the teacher awards marks out of 100 in each subject. Then takes average of all the subjects and declares the result. 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) Differentiate between product acceptance and procedure acceptance in acceptance testing. 4
- (b) State the guidelines for deciding what test cases can be included for acceptance testing. 3
- (c) List the steps of test planning. 3
4. (a) Explain Dijkstra's doctrine. 2
- (b) Differentiate between top-down integration and bottom-up integration in integration testing with the help of a suitable example. 5
- (c) Explain the methodology for performance testing. 3
5. (a) Name any *three* SDLC models. Explain spiral model in detail. 6
- (b) Differentiate between unit testing and code complexity testing. 4
6. Write short notes on the following : 10
- (a) Interoperability Testing
- (b) Decision Tables.