

17624

15116

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Illustrate your answers with neat sketches wherever necessary.
(4) Assume suitable data, if necessary.
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. a) Attempt any THREE of the following : 12
- (i) What is static testing ? State advantages and disadvantages of static testing two each.
 - (ii) State and explain top-down approach of integration testing with diagram.
 - (iii) Which features are included in test approach while planning test ?
 - (iv) Which parameters are considered while writing good defect report ? Also write contents of defect template.
- b) Attempt any ONE of the following : 6
- (i) Describe V-model with labelled diagram. State its any two advantages and disadvantages. Also write where it is applicable.
 - (ii) Explain concept of application of equivalence partitioning. How it is useful in result analysis of diploma ?

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- 2. Attempt any FOUR of the following :** **16**
- a) List all objectives of testing.
 - b) State purpose of code coverage. How it is used in analysing coding of software ?
 - c) List any four advantages of acceptance test before launching any software.
 - d) What is test case ? Which parameters are to be considered while documenting test cases ?
 - e) Explain defect life cycle to identify status of defect with proper labelled diagram.
 - f) Enlist factors considered for selecting a testing tool for test automation.
- 3. Attempt any FOUR of the following :** **16**
- a) Which are different methods of object oriented testing ? Explain any one in detail.
 - b) Describe inspection process performed under white box testing.
 - c) Write steps to prepare test plan. Also write features to be tested.
 - d) What are the points considered while estimating impact of a defect ? Also explain techniques to find defect in short.
 - e) Which are features for selecting static test tools ? Also list any two available test tools (static).
- 4. a) Attempt any THREE of the following :** **12**
- (i) Which are different causes of software defects ?
 - (ii) What is white box testing ? Classify static white box testing. State any one situation where white box testing used.
 - (iii) Why is it essential to setup criteria for testing ? List any three criteria in different situations.
 - (iv) State limitations of manual testing. Write any four.

- b) Attempt any ONE of the following :** **6**
- (i) Describe use of load testing and security testing in performance testing of facility of online result display of MSBTE.
 - (ii) Explain defect management process with proper diagram.
- 5. Attempt any TWO of the following :** **16**
- a) What is decision table ? How to use decision tables for creating test-design for credit card example ?
 - b) Enlist components of usability testing. Which features of software were tested in usability test ?
 - c) How test case specifications useful in designing test cases ?
- 6. Attempt any FOUR of the following :** **16**
- a) State any four objectives of user documentation testing. How these are useful in planning user documentation test ?
 - b) Describe Graphical User Interface (GUI) testing and its important traits.
 - c) How performance testing is performed ? List steps involved in it ?
 - d) Which are the various hardware and software required / recommended by project manager ?
 - e) Explain defect classification.
 - f) Which different benefits help to recommend automated testing ? Write advantages of switching to automated testing.
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