

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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