

11718

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) Figures to the right indicate full marks.
- (5) Assume suitable data, if necessary.
- (6) 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 Software testing ? State objectives of Software testing.
- (ii) What is Black Box testing ? List any four techniques of Black Box testing.
- (iii) Explain the Regression testing. State when the Regression testing shall be done.
- (iv) Write any four test cases to test login form.
- (b) Attempt any **ONE** of the following : **6**
- (i) Describe use of load testing and stress testing to test online result display facility of MSBTE website.
- (ii) What are the points considered while estimating impact of a defect ? Also explain techniques to find defect.

2. Attempt any FOUR of the following : 16

- (i) What is White Box testing ? Explain any one technique of static White Box testing.
- (ii) How to select a testing tool ? Explain in detail.
- (iii) Enlist components of usability testing. Which features of Software are tested in usability testing ?
- (iv) Define Metrics and Measurements. Explain need of Software measurement.
- (v) Explain Defect Management Process.
- (vi) State any four objectives of user documentation testing. How these are useful in planning user documentation test ?

3. Attempt any FOUR of the following : 16

- (i) With the help of suitable example explain decision table. Why decision table is important ?
- (ii) Explain GUI testing with suitable example.
- (iii) Explain the 'Test Infrastructure' components with diagram.
- (iv) Give comparison between Alpha testing and Beta testing. (any four points)
- (v) Write down any four limitations of manual testing.

4. (a) Attempt any THREE of the following : 12

- (i) What is test case ? Which parameters are to be considered while documenting test cases ?
- (ii) What is automated testing ? Write down advantages of using automated testing tools in software testing.
- (iii) Explain defect life cycle to identify status of defect with proper labelled diagram.
- (iv) Explain test deliverables in details.

(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) With the help of example explain Boundary Value Analysis.

5. Attempt any TWO of the following : 16

- (i) Prepare any eight test cases for admission form of college admission.
- (ii) With the suitable example, explain how 'Basis Path Testing' is used to derive the code complexity for the testing.
- (iii) What is Integration testing ? List types of Integration testing and explain any four types in brief.

6. Attempt any FOUR of the following : 16

- (i) Which parameters are considered while writing good defect report ? Also write contents of defect template.
 - (ii) Define the terms Error : Defect, Fault and Bug in relation with Software testing.
 - (iii) Give the defect classification and its meaning.
 - (iv) What is test planning and test management ?
 - (v) With the help of diagram describe client-server testing.
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