

22518

24225

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.
 - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.

Marks

1. Attempt any FIVE of the following :

10

- (a) Define following terms :
Failure, Error Bug and Defect.
- (b) List types of Integration testing. (Any two)
- (c) Enlist any two advantages of Test Plan.
- (d) List types of defects. (Any two)
- (e) List the different techniques to detect defects. (Any two)
- (f) State any two benefits of Automation testing.
- (g) Enlist any two features for selecting static test tools.

2. Attempt any THREE of the following :

12

- (a) Differentiate between verification and validation.
- (b) Explain alpha testing. Write any two advantages of it.
- (c) State the contents of 'Test Summary Report' used in test reporting.
- (d) Explain defect management process.



- 3. Attempt any THREE of the following : 12**
- (a) Explain equivalence partitioning with suitable example.
 - (b) Describe following testing : (i) Load testing (ii) Stress testing.
 - (c) Describe the factors considered to decide test strategy or test approach.
 - (d) State any four limitations of Manual Testing.
- 4. Attempt any THREE of the following : 12**
- (a) Describe inspection under static white box testing.
 - (b) Explain GUI testing with suitable example.
 - (c) Explain test deliverables in detail.
 - (d) Describe defect life cycle with neat diagram.
 - (e) Differentiate between static and dynamic testing tool.
- 5. Attempt any TWO of the following : 12**
- (a) Distinguish between white box testing and black box testing.
 - (b) Describe following testing : (i) Performance testing (ii) Security testing.
 - (c) Design test cases for railway reservation system.
- 6. Attempt any TWO of the following : 12**
- (a) Describe use of load testing and stress testing to test online result display facility of MSBTE website.
 - (b) Explain defect report template with its attribute.
 - (c) Elaborate the concept of Software Metrics. Describe Product Metrics in detail.
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