

17624

21718

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.

- |           |  | <b>Marks</b> |
|-----------|--|--------------|
| <b>1.</b> | <b>(A) Attempt any THREE of the following :</b>  | <b>12</b>    |
|           | (a) Give any four difference between Quality Assurance and Quality Control.                  |              |
|           | (b) Describe technical review under static testing.  |              |
|           | (c) With the help of neat diagram, describe unit testing.                                    |              |
|           | (d) Give any two advantages and any two limitations of Function/test matrix.                 |              |
|           | <b>(B) Attempt any ONE of the following :</b>  | <b>06</b>    |
|           | (a) Prepare and write six test cases for simple calculator application.                      |              |
|           | (b) Describe Defect Management Process with neat & labelled diagram.                         |              |
| <b>2.</b> | <b>Attempt any FOUR of the following :</b>   | <b>16</b>    |
|           | (a) What is Boundary Value Analysis ? List any three guidelines for boundary value analysis. |              |
|           | (b) Describe how to select testing tool.   |              |

- (c) Prepare and write four test cases for Library Management System of college.
- (d) Give any four difference between Manual and Automated testing.
- (e) Explain Requirement defects and Design defects.
- (f) Explain Equivalence partitioning with respect to equivalence classes.

**3. Attempt any FOUR of the following :**

**16**

- (a) Explain any one type of structural white box testing in detail.
- (b) Give any four difference between alpha and beta testing.
- (c) What is external test standard ? Give any three types of external standards.
- (d) Describe how to perform usability and GUI testing.
- (e) Give any two advantages and any two disadvantages of using testing tools.
- (f) Explain Defect template.

**4. (A) Attempt any THREE of the following :**

**12**

- (a) Give any four advantages of test planning.
- (b) What do you mean by Software Metrics ? List any three types of metrics.
- (c) What are different techniques for finding defects ? Explain in detail.
- (d) Describe the factors considered to decide test strategy or test approach.

**(B) Attempt any ONE of the following :**

**06**

- (a) Differentiate between verification and validation.
- (b) Distinguish between white box testing and black box testing. (any six)

**5. Attempt any TWO of the following :****16**

- (a) Describe test reporting in detail. How to prepare a summary report ?
- (b) With the help of an example, explain Graph-based testing.
- (c) Explain following concepts related to Integration testing with neat & labelled diagram :
  - (i) Top-down testing.
  - (ii) Bottom-up testing.

**6. Attempt any FOUR of the following :****16**

- (a) Give any two root causes of defects. Also give any two effects of defects.
  - (b) What is Software testing ? Give any three objectives of testing.
  - (c) Explain Defect Life Cycle with diagram.
  - (d) What is Test plan ? List test planning activities.
  - (e) Describe compatibility testing with an example.
  - (f) Explain Client-Server testing.
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