

APRIL/MAY 2019

**MCS25A — SOFTWARE TESTING**

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

1. (a) Write a short note on Path Instrumentation.

Or

(b) Explain the concept of Coding Bugs.

2. (a) What is Path Selection? Explain.

Or

(b) What is Data Flow Testing? Explain.

3. (a) Explain the steps of Basis Path Testing.

Or

(b) Write a short note on UGLY Domains.

4. (a) Explain Three Variables in KV Chart.

Or

(b) Write a short note on Decision-Tables and Structure.

5. (a) Explain the Node Reduction Algorithm.

Or

(b) What are differences between symmetric Relations and Anti-symmetric Relations?

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Describe the concept of Test Design.

7. Illustrate Transaction Flow Graphs with its usage.

8. Explain the following :

(a) Domains

(b) Paths and Predicates

9. Discuss in detail the Rules of Boolean Algebra.

10. Describe the following :

(a) Transitive Relations

(b) Reflexive Relations.