

Day : Wednesday

Date : 12-01-2022

W-18778-2021

Time : 02:00 PM-05:00 PM

Max. Marks: 60

N.B.:

- 1) Q4 from Section I is COMPULSORY.
- 2) Answer ANY TWO questions from Q 1, 2, 3 in Section I.
- 3) Answer ANY TWO questions from Q 5, 6, 7 in Section II.
- 4) All question CARRY EQUAL marks.
- 5) Answers to Both the sections should be written in SAME answer book.
- 6) Draw a labeled diagram WHEREVER necessary.

SECTION - I

Q.1) Answer the following: (6 Marks X 2 = 12)

- a) What do you mean by Software? Explain various components of software.
- b) Why testing is necessary? Explain its various goals.

Q.2) Answer the following: (6 Marks X 2 = 12)

- a) Describe the software testing process. Explain in brief.
- b) Describe Integration testing in details. Explain its various approaches.

Q.3) Explain the following: (6 Marks X 2 = 12)

- a) Explain in detail control structure testing.
- b) What is Risk? Explain role of testing in Risk Management.

Q.4) Write short notes on the following: Attempt ANY THREE (4 Marks X 3 = 12)

- a) Types of software
- b) Unit Testing
- c) Techniques of Verification
- d) Testing Patterns
- e) Real time testing
- f) Types of Risks

SECTION - II

Q.5) Answer the following: (6 Marks X 2 = 12)

- a) Discuss role of each member involved in software development.
- b) Explain the process of debugging with the suitable diagram.

Q.6) Answer the following: (6 Marks X 2 = 12)

- a) Explain importance of system testing. Explain recovery testing in brief.
- b) Explain Validation testing and its various types. Differentiate between alpha and Beta testing.

Q.7) Explain the following: (6 Marks X 2 = 12)

- a) What is black box testing? Explain equivalence partitioning and boundary value analysis.
- b) What are various steps to derive a test cases using White Box Testing technique.
