

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)

B.C.A. Sem-IV : : SUMMER - 2022

SUBJECT : SOFTWARE TESTING

Day : Thursday
Date : 26-05-2022

S-18778-2022

Time : 10:00 AM-01:00 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.
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SECTION - I

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

- a) Describe members involved in software development.
- b) Differentiate between verification and validation.

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

- a) Explain V-testing model. State its advantages and disadvantages.
- b) What is Validation testing? Discuss alpha and beta testing in detail.

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

- a) How to do a testing of client server architecture? Discuss in detail.
- b) Explain unit testing in detail.

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

- a) Software Testing Process
- b) Testing Patterns
- c) Testing of Real Time Systems
- d) Control Structure Testing
- e) Equivalence partitioning
- f) Goals of Testing

SECTION - II

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

- a) Explain Basis Path testing technique.
- b) Explain the process of debugging with the suitable diagram.

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

- a) Explain Security Testing in brief.
- b) What is Integration testing? Differentiate between bottom up integration and top down integration.

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

- a) Differentiate between White Box and Black Box testing techniques.
- b) Define the term Risk. How testing plays an important role in Risk Management?
