Seat No. _____

BACHELOR OF COMPUTER APPLICATION Examination

BCA Semester - 2 APRIL 2025 (Regular) APRIL - 2025

CS-10: SAD, SOFTWARE QUALITY ASSURANCE & TESTING

Faculty Code : 003

Subject Code : 23SI-BCAP-MI-02-02001

Time : 2 Hours] **[Total Marks : 50**

Q.1 (A) Answer the following: 3

1. QC Stands for _____.
2. A data dictionary can be helpful in improving consistency of software. [True / False]
3. What is information system?

Q.1 (B) Explain responsibilities of system analyst. 2

Q.1 (C) Write a detail note on SDLC. 5

OR

Q.1 (A) Answer the following: 3

1. QA stands for _____.
2. MIS stands for _____.
3. What is sub-system?

Q.1 (B) Difference: Decision Tree vs. Decision Table 2

Q.1 (C) Write a detail note on various fact finding techniques. 5

Q.2 (A) Answer the following: 3

1. Which testing strategy focuses on individual units of software?
2. What is Bug?
3. State transition testing is performed in black box testing. [True / False]

Q.2 (B) Difference: Static Testing vs. Dynamic Testing 2

Q.2 (C) Explain white box software testing technique. 5

OR

Q.2 (A) Answer the following: 3

1. Integration testing is also known as _____.
2. Load testing is not part of non-functional testing. [True / False]
3. What is grey box testing?

Q.2 (B) Difference: Fault vs. Failure in terms of software. 2

Q.2 (C) Write note on various Testing Artifacts. 5

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Q.3 (A) Answer the following: 3

1. Shareware does not cost anything. [True / False]
2. ZAP stands for _____
3. What is Big Bang Model?

Q.3 (B) List out various stages of Waterfall Model. 2

Q.3 (C) Write note on Iterative Model. 5

OR

Q.3 (A) Answer the following: 3

1. Selenium framework primarily used for testing web applications. [True / False]
2. What is prototype in prototyping model?
3. Which SDLC model also includes risk management ?

Q.3 (B) Difference : Freeware vs. Shareware. 2

Q.3 (C) Write note on V-Model. 5

Q.4 (A) Answer the following: 3

1. LOC stands for _____ in terms of project estimation technique.
2. What is Optimistic Time?
3. CPM stands for _____.

Q.4 (B) Explain Task Network Scheduling Method. 2

Q.4 (C) Write a detail note on COCOMO model. 5

OR

Q.4 (A) Answer the following: 3

1. GANTT chart is also known as _____.
2. What is critical path in task networking?
3. WBS stands for _____.

Q.4 (B) Explain FP project estimation technique. 2

Q.4 (C) Write detail note on PERT chart. 5

Q.5 (A) Answer the following: 3

1. List out features of UML.
2. Activity diagram is primarily used to define relationship of entities. [True / False]
3. CAD stands for _____.

Q.5 (B) Explain Use case diagram. 2

Q.5 (C) Write detail note MS - Visio. 5

OR

Q.5 (A) Answer the following: 3

1. UML stands for _____.
2. What is stencil in MS - Visio?
3. What is activity diagram in UML?

Q.5 (B) Explain class diagram. 2

Q.5 (C) Write detail note MS - Project. 5

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