

BCA Sem.-4 Examination

CC-209

System Analysis, QA & Testing

May-2025

Time : 2-30 Hours]

[Max. Marks : 70

Q1 Do as directed

- A. Explain Waterfall model with diagram. 07
 B. Explain Fact Finding techniques. 07

OR

- A. Explain feasibility and types of feasibility in detail. 07
 B. Explain spiral model with diagram. 07

Q2 Do as directed

- A. Explain main pillars of O.O.A.D. 07
 B. List and Explain guidelines for designing of Use-case. 07

OR

- A. Explain aggregation and composition with an example. 07
 B. Explain guidelines and elements of Sequence diagram. 07

Q3 Do as directed

- A. Explain guidelines and elements/notations of Activity Diagram with example. 07
 B. Differentiate between analysis class diagram and design class diagram. 07

OR

- A. Explain different types of relationship in class diagram also explain its elements. 07
 B. Explain Class diagram and also explain elements and notation of class diagram. 07

Q4 Do as directed

- A. What is Quality, Quality Assurance and Quality Control? Differentiate between Quality Assurance and Quality Control. 07

- B. What is Testing? List and Explain Types of Software testing in details. 07

OR

- A. Differentiate between white box and black box testing 07

- B. Explain system testing. Explain software validation and verification 07

Q.5**[Attempt Any Seven]****14**

1. _____ divides activity diagram into section.
 a. Objects b. Actors c. Swim lanes d. Fork and Join
2. In Class diagram, Each Class have _____.
 a. Name, Attribute, Operation, Derive Class. b. Name, attribute, Operation
 c. Name and Attribute d. Name and Operations
3. Write the full form of SDLC. _____
 a. System development life cycle b. software design life cycle
 c. system design life cycle d. software development life cycle.
4. _____ diagram shows the work flow of entire system
 a. Sequence b. Activity c. Use Case d. State
5. _____ model is appropriate when it is too risky to develop the whole system at once
 a. Waterfall b. Spiral c. Incremental d. JAD
6. _____ is a proactive process and is Prevention in nature
 a. Quality Assurance b. Quality Control c. Quality Testing d. Quality Analysis
7. _____ is a reactive process and is Detection in nature
 a. Quality Assurance b. Quality Control c. Quality Testing d. Quality Analysis
8. _____ is a software testing method in which the internal structure/design/implementation of the item being tested is known to the tester.
 a. Black Box b. White Box c. Integration d. Regression
9. _____ is defined as a type of testing where software modules are integrated logically and tested as a group.
 a. Black Box b. White Box c. Integration d. Regression
10. A Class is related to itself by _____ kind of association.
 a. Unidirectional b. Aggregation c. Generalization d. Reflexive
11. A _____ is a relationship among instance of classes.
 a. Link b. Line c. Attribute d. Label
12. _____ divide activity diagram into sections.
 a. Fork b. Join c. Swim lanes d. Activity