AO-102

April-2022
B.C.A., Sem.-IV
CC-209 : System Analysis, QA and Testing
(New)

Time : 2 Hours]   [Max. Marks : 50

Section-I

1. (A) Explain Waterfall model in brief.   **10**

    (B) List the fact finding technique. Explain Interview and Questionnaires and Surveys. **10**

2. (A) Explain the Constituents of OOAD.   **10**

    (B) Draw user case diagram for online shopping System where user will search *product by category,* after searching product user can view details of product and add that product into the cart. User will do same process for more products. User will see the final product list of cart and place an order. Before placing an order user must register with system, if not than first of all register herself/himself. When user places order he/she has to fill one form for delivery and then select mode of payment.   **10**

3. (A) List the symbols of Activity diagram and draw the Activity diagram for College Admission System.   **10**

    (B) Draw the class diagram for social media application. In that, user will register and open their account. User can add friends and send friend request. User can add post like text message, image, video etc. User can also view Post of their friends and like the post or comment the post. User can also create group.   **10**

4. (A) What is Quality, Quality Assurance and Quality Control ? State differentiate between Quality Assurance and Quality Control.   **10**

    (B) What is White box and Black box Testing ? State differentiate between White box and Black box Testing.   **10**

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5. **Answer the following : (Any 5)**

(1) A collection of component work together is called _____.

    (A) System Analysis   (B) System

    (C) Analysis   (D) Design

(2) In _____ model requirements are broken down into multiple standalone modules.

    (A) Spiral   (B) Incremental

    (C) SDLC   (D) All the above

(3) _____ show how the processes will interact with each other.

    (A) Class Diagram   (B) DFD

    (C) Sequence Diagram   (D) None of these

(4) _____ is a combination of sequential and prototype Model.

    (A) Spiral   (B) Waterfall

    (C) Incremental   (D) Use cases

(5) _____ testing of software applications is done during the development (coding) of an application.

    (A) Black box   (B) Integration

    (C) Unit   (D) None of these

(6) _____ Software Testing is used to check internal functions of software.

    (A) Black box   (B) Internal

    (C) Module   (D) White box

(7) Full form of DFD.

    (A) Data Function Diagram   (B) Data Flow Dictionary

    (C) Data Flow Definition   (D) Data Flow Diagram

(8) In _____ model Developer will design one working model or Prototype.

    (A) Waterfall   (B) Spiral

    (C) Incremental   (D) All the above

(9) A class is related to itself by _____ kind of association.

    (A) Unidirectional   (B) Aggregation

    (C) Generalization   (D) Reflexive

(10) _____ represents an individual participant in the Interaction of Sequence Diagram.

    (A) Activation   (B) Lifeline

    (C) Actor   (D) Guards