AJ-122

April-2023

B.C.A., Sem.-IV

CC-209 : System Analysis & Quality Testing

(New)

Time : 2:30 Hours]   **[Max. Marks : 70**

1. Write the following :

   (i) Explain waterfall model in detail with advantage & disadvantage.   7

   (ii) Explain all fact finding technique in detail.   7

   OR

   (i) Explain spiral model in detail with advantage & disadvantage.   7

   (ii) Give brief note on Feasibility Study.   7

2. Write the following :

   (i) Explain all elements of Use case diagram with proper example.   7

   (ii) Give brief note on object & classes.   7

   OR

   (i) Explain all elements of Sequence diagram with proper example.   7

   (ii) Give brief note on Inheritance, Association & Dependency in detail.   7

3. Write the following :

   (i) What is an Activity Diagram ? List & explain elements of it.   7

   (ii) Draw an Activity Diagram of Online Shopping as Customer.

   Online customer can browse or search items, view specific item, add it to shopping cart, view and update shopping cart, checkout. Customer can view shopping cart at any time. Checkout is assumed to include user registration and login.   7

   OR

   (i) Draw a Class Diagram for Information Modeling System for college.

   In a college there is more than one course. Each course offers more subject to students. A subject will be offered by only one course. Each course has instructors. Students can enroll in up to 3 subjects and instructor can teach up to 3 subjects.   7

   (ii) Explain generalization, aggregation & composition with example.   7

4. Write the following :

   (i) Explain Quality, Quality Assurance and Quality Control. 7

   (ii) Explain White box testing & Black box testing. 7

   OR

   (i) Discuss Integration testing strategies in detail. 7

   (ii) Explain Performance testing with its categories in detail. 7

5. MCQs : (Attempt any **7** out of **12**) 14

   (1) A questionnaire is also known as _____.

   (2) In DFD _____ is a top level view of an information system.

   (3) Which fact find technique can help to understand how current system suppose to work ?

       (a) Questionnaires   (b) Interview

       (c) Documentation   (d) (a) & (b)

   (4) Class is an abstract data type. (True/False)

   (5) Full form of UML.

   (6) Which software model is referred to as "Linear life cycle" model ?

   (7) Which relationship is a parent child relationship between classes ?

       (a) Dependency   (b) Multiplicity

       (c) Generalization   (d) None of above

   (8) Aggregation is used to represent partial relationship. (True/ False)

   (9) CED = _____/_____.

       (a) WDE, KLOC   (b) WDE, NCE

       (c) NCE, KLOC   (d) None of above

   (10) _____ divides activity diagram into sections.

   (11) What is reflexive association ?

   (12) A _____ identifies that a single flow of control divides into two or more separate flows. (Fork/Join)

———————