



**Avinashilingam Institute for Home Science and Higher Education for Women**

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)

Re-accredited with A++ Grade by NAAC. Recognised by UGC Under Section 12B

Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test II - October 2024

**SEMESTER -V**

**Class :III UG**

**Time: 2 hours**

**Major :Information Technology**

**Max.Marks: 60**

**21BITC25 Object Oriented Analysis and Design**

**Course Outcomes:**

1. To develop skills in designing the conceptual model of the software
2. To inculcate essential skills to cope up with the complexity in software design
3. To provide knowledge about various testing strategies to test quality of the software

**Part-A**

**6 x 1 = 6**

**Answer all the questions**

1. The intersection among objects' role to achieve a given goal is called \_\_\_\_ CO3 K2  
a. Collaboration      b. Inheritance      c. Encapsulation      d. Polymorphism
2. Object Interoperability is primarily achieved through which of the following mechanisms? CO3 K2  
a. Method Overloading      b. Message Passing  
c. Object Composition      d. Multiple Inheritance
3. Which principle of User Interface Design focuses on making the interface easy to learn and remember? CO4 K2  
a. Flexibility      b. Consistency      c. Usability      d. Feedback
4. In user interaction design, micro-level processes include all of the following except? CO4 K2  
a. Button clicks      b. Data validation  
c. System-wide error handling      d. Form submissions
5. What is the main objective of a test plan document? CO5 K2  
a. Define the marketing strategy      b. Outline the testing scope and objectives  
c. Establish the development budget      d. Specify the user interface design
6. Which of the following is NOT a commonly used software testing strategy? CO5 K2  
a. Unit Testing      b. Integration Testing      c. System Testing      d. Algorithm Testing

**Part B**

**3 x 6 = 18**

**Answer any two questions**

7. a. Describe Database Management Model CO3 K3  
(or)  
b. Illustrate Object Relation Systems : The practical world CO3 K3
8. a. Illustrate the Micro level process UI design Rules CO4 K4  
(or)  
b. Illustrate the prototyping the user interface CO4 K4
9. a. Describe the role of test cases in software testing. CO5 K4  
(or)  
b. Compare unit testing and integration testing? CO5 K5

**Part C**

**3 x 12 = 36**

**Answer any one question**

10. a. Illustrate refining attributes for ViaNet Bank Objects CO3 K4  
(or)  
b. Elaborate class design, object storage and interoperability in detail CO3 K4
11. a. Elaborate purpose of View layer interface in detail CO4 K4  
(or)  
b. Design user Interface for ViaNet Bank ATM CO5 K5
12. a. Illustrate different Test strategies detail. CO5 K5  
b. Explain the principles of debugging. What are the various techniques used in debugging, and how do they help identify and resolve issues in software systems? CO5 K5

