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Question Paper Code: 59081

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

Fifth Semester

Information Technology

15UIT931 - OBJECT ORIENTED SYSTEM DESIGN

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. A Class consists of which of these abstractions?
 - (a) Set of the objects
 - (b) Operations
 - (c) Attributes
 - (d) All the above
2. A class is divided into which of these compartments?
 - (a) Name Compartment
 - (b) Attribute Compartment
 - (c) Operation Compartment
 - (d) All the above
3. Which of these is true:
 - (a) Interactions supported by a product are cataloged in a use case description
 - (b) Interactions are refined in use case diagram
 - (c) All the above
 - (d) None of these
4. Which model shows the flow of object interactions?
 - (a) Sequence model
 - (b) Subsystem model
 - (c) Dynamic model
 - (d) Both Sequence and Dynamic model
5. Which of the following is a part of testing OO code?
 - (a) Validation tests
 - (b) Integration tests
 - (c) Class tests
 - (d) System tests

PART - B (5 x 3 = 15 Marks)

6. What are the primary goals in the design of UML?
7. How to Apply the GRASP Patterns? And explain any one?
8. What is State-Independent and State-Dependent Objects?
9. Difference between Sequence diagram and Collaboration diagram.
10. What is white box testing?

PART - C (5 x 16 = 80 Marks)

11. (a) Explain Unified Modeling Language and OOAD. (16)
Or
(b) Describe OOSD Life cycle in detail? (16)
 12. (a) Draw and explain online shopping domain model in Use case and Class diagram. (16)
Or
(b) Explain Relationship in use case diagram. (16)
 13. (a) Explain State chart Diagram with suitable example. (16)
Or
(b) Explain in detail the axioms and corollaries in object oriented design. (16)
 14. (a) Briefly describe the Booch system development process. (16)
Or
(b) Explain about design patterns. (16)
 15. (a) Explain Component Diagram with example of Railway reservation system. (16)
Or
(b) What is Unit testing and Integration testing? And explain in detail. (16)
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