Reg. No. :

Question Paper Code: 59831

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

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. Dynamic aspects related to a system are shown with help of

   (a) sequence diagrams   (b) interaction diagrams
   (c) deployment diagrams   (d) use case diagrams

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. List Object oriented design process activities?

10. What is white box testing?

PART - C (5 x 16 = 80 Marks)

11. (a) Explain Unified Modeling Language and OOAD. (16)

Or

   (b) Briefly explain about Object oriented systems developments life cycle. (16)

12. (a) Draw and explain online shoping 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 class testing and OO integration testing methods in detail. (16)

Or

   (b) What is Unit testing and Integration testing? And explain in detail. (16)

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