**C**

Reg. No. :

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## Question Paper Code: 59831

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

Elective

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. Identify the relationship that describes how many objects are taking part in that relationship.                                    CO1- R

    (a) Generalization      (b) Realization      (c) Association      (d) Dependency

2. Which one is not supporting the Behavioral structure in UML diagram      CO2- R

    (a) Usecase      (b) Sequence      (c) Class      (d) Statechat

3. In cohesion how many objects can interact                                    CO3- R

    (a) One      (b) Two      (c) More the two      (d) Zero

4. The heart of the Jacobson concept is _____                           CO4- R

    (a) Class      (b) Usecase      (c) Model      (d) All

5. Which diagram is used to visualize the topology of the physical components of a system where the software components are deployed.      CO5- R

    (a) Deployment      (b) Component      (c) Package      (d) Collaboration

PART – B (5 x 3= 15 Marks)

6. Define UML.                                                                 CO1- R

7. Write the role of aggregation in the class diagram.                         CO2- R

8. Mention the significant strength of sequence diagram.                       CO3- R

9. What is framework?                                                          CO4- R

10. List the use of component diagram.                                         CO5- R

PART – C (5 x 16= 80Marks)

11. (a) Explain the various static aspect UML diagram with suitable examples.    CO1-U    (16)

Or

(b) Discuss in detail the macro processes in Object Oriented Systems Development Life Cycle.    CO1-U    (16)

12. (a) Explain the role for use case relationship in the usecase model with suitable examples.    CO2- App    (16)

Or

(b) Construct the class diagram for library management system with suitable relationship.    CO2- App    (16)

13. (a) Explain with an example how interaction diagrams are used to model dynamic aspects of a system.    CO3- App    (16)

Or

(b) Write the significant activities to order the product via online process. Also construct the activity diagram for the same process.    CO3- App    (16)

14. (a) Explain the different processes in the BOOCH methodology.    CO4- U    (16)

Or

(b) Discuss in detail about Unified approach process.    CO4- U    (16)

15. (a) Discuss the various issues in OO testing.    CO5- U    (16)

Or

(b) Explain the different categories of integration testing with suitable examples.    CO5- App    (16)

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