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Question Paper Code: 55202

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

Fifth Semester

Computer Science and Engineering

15UCS502 - Object Oriented Analysis and Design

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. A directed dashed line represents _____ relationship. CO1-R
(a) Association (b) Dependency (c) Generalization (d) Message
2. A _____ diagram emphasizes the structural organization of the CO1-U
objects that send and receive messages.
(a) Sequence (b) Activity (c) Use Case (d) Collaboration
3. Cohesion and coupling are represented by using CO2-R
(a) Structure part (b) Structure effect (c) Dependence matrix (d) Dependency
4. When two or more classes serve as base class for a derived class, the CO3-U
situation is known as _____
(a) Multiple inheritance (b) Hierarchical inheritance
(c) Encapsulation (d) Association
5. Refinement is a process of _____. CO3-U
(a) Inheritance (b) Collaboration (c) Elaboration (d) Polymorphism

PART – B (5 x 3= 15 Marks)

6. Recognize the primary goals in design of UML. CO1-R
7. Differentiate generalization and specialization. CO1- U

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| 8. | List out the benefits of Adapter patterns. | CO2-U |
| 9. | Summarize the advantages of Factory objects. | CO3-R |
| 10. | Discuss briefly about Issues in OO Testing. | CO3- U |

PART – C (5 x 16= 80Marks)

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| 11. | (a) Interpret the phases of Unified process. | CO1- U | (16) |
| | Or | | |
| | (b) Design a problem statement for Library management system. Draw the UML Use Case, Class diagram, Activity diagram, package diagram, Component and Deployment diagrams. | CO1-App | (16) |
| 12. | (a) Describe factory method, structural, Bridge, adapter design patterns. | CO2-U | (16) |
| | Or | | |
| | (b) Write about the GRASP pattern also explain designing objects with Responsibilities. | CO2-U | (16) |
| 13. | (a) Define coupling. Enumerate and explain the types of Coupling in detail. | CO2- U | (16) |
| | Or | | |
| | (b) Define Controller. Discuss the concepts of Façade, session and bloated controller with an example. | CO2-U | (16) |
| 14. | (a) Illustrate the process of mapping design to code and to perform oo testing. | CO3-U | (16) |
| | Or | | |
| | (b) Examine the Strategies used to identify the Conceptual classes also describe the steps to create a Domain model used for representing the Conceptual classes. | CO3-U | (16) |
| 15. | (a) Paraphrase the guidelines for finding the Conceptual classes with neat diagrams. | CO3-U | (16) |
| | Or | | |
| | (b) Illustrate Logical Architecture refinement. | CO3-U | (16) |