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**Question Paper Code: 55202**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

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. The vertical dimension of a sequence diagram shows CO1- R  
(a) Abstract                      (b) Time                      (c) Line                      (d) Messages
2. Cohesion and coupling are represented by using CO2- R  
(a) Structure Part              (b) Structure Effect              (c) Dependence Matrix              (d) Dependency
3. An observer pattern does not involve CO2- U  
(a) Observing Changes                      (b) Notifying Changes  
(c) Keeping track of all observers              (d) Analyzing Observers
4. A general purpose mechanism for organizing elements into groups CO3- R  
(a) Package                      (b) Component                      (c) Node                      (d) Class
5. Which of the following is a part of testing OO code? CO3- U  
(a) Validation Test              (b) Integration Test              (c) Class Test                      (d) Integration Test

PART – B (5 x 3= 15 Marks)

6. Mention the use cases involved in online ticket reservation system. CO1- Ana
7. State the advantages of Factory objects. CO2- U
8. Define information expert. CO3- R

9. How to choose initial domain objects? CO3- U
10. Differentiate Conventional Testing and OO Testing. CO3- U

PART – C (5 x 16= 80 Marks)

11. (a) Define Unified Process. Explain the phases and characteristics of unified process with neat diagram. CO1- U (16)
- Or
- (b) Discuss about UML Deployment and Component Diagrams. Draw the diagrams for a banking application. CO1- U (16)
12. (a) Illustrate with an example, the relationship between sequence diagram and use cases. CO1- U (16)
- Or
- (b) Design a problem statement for online ticket reservation system and draw the UML Use Case, Class diagram, Activity diagram. CO1- U (16)
13. (a) Explain GRASP by designing objects with responsibilities. CO2- U (16)
- Or
- (b) Explain low coupling and high cohesion with neat diagram. CO2- U (16)
14. (a) Paraphrase the following, CO2- U (16)
- i) Adapter
  - ii) Controller
  - iii) Observer
  - iv) Bridge
- Or
- (b) Design the Use-Case Realizations with GOF Design Patterns. CO2- U (16)
15. (a) Illustrate Domain model refinement with suitable example. CO3- U (16)
- Or
- (b) Describe about implementation model with an example. (Mapping Designs to Code). CO3- U (16)