

MCA DEGREE EXAMINATIONS: NOV/DEC 2014

(Regulation 2013)

Third Semester

MASTER OF COMPUTER APPLICATIONS

P13CAT303: Object Oriented Analysis and Design

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1. Define state and behaviour of an object.
2. Differentiate between static binding and dynamic binding.
3. What is OMT object model?
4. Draw a UML diagram to represent aggregation.
5. Differentiate between uses association and extends association in an use case diagram.
6. What are the two major properties of a part –of relationship?
7. What is the relationship between coupling and cohesion?
8. Define persistence.
9. Differentiate between pattern and framework.
10. What are the disadvantages of observer pattern?

Answer any FIVE Questions:-

PART B (5 x 16 = 80 Marks)

Q.No:11 is Compulsory

11. (i) Design user interface for the Bank ATM using the design rules and guidance of view layer design process. (10)
- (ii) Explain the guidelines for using fonts in an user interface. (6)
12. (i) Draw a sequence diagram for a restaurant management system. (8)
- (ii) Draw an activity diagram for library information system. (8)

13. Describe the activities involved in object oriented system development life cycle in detail.
14. (i) Explain the noun phrase approach used to identify classes. (8)
(ii) How will you identify attributes and methods for a class. (8)
15. Explain the object oriented design axioms and corollaries with suitable examples.
16. (i) Explain prototype design pattern with a suitable example. (8)
(ii) Explain the various roles of the design pattern in object oriented software development. (8)
