

K19P 0001

Reg. No. :

Name :

Fifth Semester M.C.A. Degree (Reg./Supple./Imp.)
Examination, January 2019
(2014 Admn. Onwards)
MCA 5C24 : OBJECT ORIENTED MODELING AND DESIGN

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **any ten** questions. **Each** question carries **three** marks.

1. Define encapsulation with example.
2. Explain polymorphism with example.
3. Write a note on message structure.
4. Write a note on UML.
5. Write a note on whole/Part associations in class diagrams.
6. Write a note on sequence diagrams.
7. Write a note on packages in UML.
8. What are the uses of architecture diagrams, explain.
9. Write a note on encumbrance.
10. Write a note on class cohesion.
11. Write a note on Mix-In Classes.
12. Write a note on state support in a class interface.

(3×10=30)

P.T.O.



SECTION – B

Answer **all** questions. **Each** question carries **ten** marks.

13. a) Explain in detail class hierarchy with example. 10
- OR
- b) i) Explain in detail for what object orientation good for ?
ii) Briefly explain the history of object orientation. (6+4)
14. a) With a diagram explain collaboration diagram, its uses and polymorphism in the collaboration diagram. 10
- OR
- b) i) What is an activity diagram ? Explain the special constructs for activity models. (7+3)
ii) Write a note on state diagrams.
15. a) Explain deployment diagram for software constructs in detail. 10
- OR
- b) Explain with a neat diagram depicting the human interface using the window-navigation diagram. 10
16. a) Explain Encapsulation structure and connasence with example. 10
- OR
- b) Write a note on :
i) State space and behavior of a class
ii) The principle of closed behavior. (5+5)
17. a) i) Explain in detail abuses of inheritance
ii) Explain in detail danger of polymorphism. (5+5)
- OR
- b) i) What is a component ? Explain its internal design.
ii) Explain lightweight and heavyweight components. (5+5)