



K21P 2601

Reg. No. :

Name :

**V Semester M.C.A./M.C.A. (Lateral Entry) Degree (C.B.S.S. – Reg./Suppl./Imp.)
Examination, November 2021
(2016 Admission Onwards)**

MCA 5C24 : OBJECT ORIENTED MODELING AND DESIGN

Time : 3 Hours

Max. Marks : 80

- Instructions :** 1) Answer **any ten** questions from Part – A. **Each** question carries **3** marks.
2) Answer **all** questions from Part – B. **Each** question carries **10** marks.

PART – A

Note : Answer **any ten** questions. **Each** question carries **3** marks.

1. What is encapsulation ?
2. Briefly explain Object Oriented Analysis.
3. What are the different types of messages ?
4. Give the difference between a class and an object.
5. 'The UML is language'. Explain.
6. What is abstract class ?
7. When is it appropriate to model with composition ?
8. Briefly explain the purpose of a sequence diagram.
9. What are the three kinds of UML events ?
10. Write short notes on Class Cohesion.
11. Give a general phrasing of the law of Demeter.
12. What is the purpose of a window navigation diagram ?

P.T.O.

K21P 2601



PART – B

Answer **all** questions. **Each** question carries **10** marks.

13. a) Give a brief account of messages.

OR

b) Explain polymorphism in detail with suitable examples.

14. a) Explain inheritance with focus on UML notations to depict it.

OR

b) Describe collaboration diagram in detail.

15. a) Explain how deployment diagrams can be used in UML modelling.

OR

b) Discuss Package diagram in detail.

16. a) Explain domains of object classes.

OR

b) Explain the three types of cohesion which when present departs from ideal cohesion state.

17. a) List the advantages and disadvantages of using components.

OR

b) Write short notes on :

i) Software component

ii) Light weight and heavy weight component.