S.No. 8980 **P 16 MBA 4 ES 6**

(For the candidates admitted from 2016–2021 Batch)

M.B.A. DEGREE EXAMINATION, NOVEMBER 2023

Business Administration - Elective

OBJECT ORIENTED PROGRAMMING AND C++

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20)

Answer ALL questions.

1. What do you mean by objects in object-oriented programming?

2. What is compile time in polymorphism?

3. Differentiate class and object in OOPs.

4. What are interfaces in OOPs?

5. What is system design in OOP?

6. What is UML?

7. Differentiate constructor and destruction.

8. Write the meaning of abstract base class.

9. Define operator overloading.

10. What is a virtual function in C++?

PART B — (5 × 5 = 25)

Answer ALL questions, choosing either (a) or (b).

11. (a) Enumerate the structured programming techniques.

Or

(b) What are object-oriented languages? Explain

12. (a) State the advantages and disadvantages of object-oriented data modeling.

Or

(b) Briefly discuss the program components of data modeling.

13. (a) Illustrate the notation for object-oriented system design.

Or

(b) How do you integrate OOD with system analysis and system design? Explain.

14. (a) Elucidate the different data types in present in C++.

Or

(b) Exhibit the different levels of inheritance of C++.

15. (a) List the rules of virtual function.

Or

(b) Illustrate the friend functions and static functions.

PART C — (3 × 10 = 30)

Answer any THREE questions.

16. Compare function overloading, function overriding and function redefinition.

17. Discuss about hierarchical inheritance and inheritance modes.

18. Describe about the object-oriented design methods with illustrations.

19. Write the procedure of implementation of detailed design of OOD.

20. Enumerate the types of polymorphism with suitable notations and illustrations.

———————