

Roll No:

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Examination: ODD SEMESTER-2024
MCA (1st Semester) BACKLOG

Paper Name : Object Oriented Programming

Paper Code:MCA 101

Time: 2.5 hours

Maximum marks:60

Note: *This question paper contains two sections Section A and B.*

Follow proper numbering for answering the questions.

BL - Bloom's Taxonomy Levels (1: Remembering, 2: Understanding, 3: Applying, 4: Analysing, 5: Evaluating, 6: Creating) CO - Course Outcomes.

Section-A

All questions are compulsory in this section.

Marking Scheme :4 X 5 =20.

Q.N.	Questions	Mark	CO	BL
Q1	What do you mean by constant, variable, keywords and identifiers? Give example of each.	5	CO1	BL2
Q2	What is a constructor? Write features of any two types of constructors?	5	CO2	BL3
Q3	Write a C++ program to display names, rollnos and grades of 3 students who have appeared in the examination. Declare the class of name, rollnos and grade. Create an array of class objects. Read and display the contents of the array	5	CO2	BL3
Q4	Differentiate between call by value and call by reference.	5	CO2	BL3

Section-B

Attempt any FOUR questions in this section.

Marking Scheme :4X 10 =40.

Q.N.	Questions	Mark	CO	BL
Q1	What are the features and advantages of object-oriented programming.	10	CO1	BL2
Q2	How a class accomplishes data hiding? Explain using an example?	10	CO2	BL3
Q3	Define a class named "Train" representing following members: -Train Name, Source, Destination, Journey Date Capacity Member Functions: - -Initialise members -Input Train Data -Display Data Write a C++ program to create the Train class with the specifications given above.	10	CO2	BL3
Q4	What is polymorphism? What are its advantages and types?	10	CO4	BL4
Q5	What is inheritance? Discuss the types of inheritance.	10	CO3	BL2
Q6	Write a C++ program to generate Fibonacci series using recursion with member function.	10	CO2	BL3