MCA (Sem. – 2nd)
OBJECT ORIENTED PROGRAMMING USING C++
SUBJECT CODE : MCA – 202 (N2)
Paper ID : [B0107]

Time : 03 Hours   **Maximum Marks : 60**

Instruction to Candidates:
1) Attempt any one question from **Sections A , B, C & D**.
2) Section - **E** is **Compulsory**.
3) Use of Non-programmable **Scientific Calculator** is allowed.

Section – A   *(1 × 10 = 10)*

Q1) What is object oriented programming? How it is different from structured program-ming? Explain.

Q2) Write a note on the following:-
    a) Symbolic constants.
    b) Bitwise operators
    c) Break and continue statements

Section – B   *(1 × 10 = 10)*

Q3) What is recursion? How it is different from iteration? Write a 'C++' to reverse a four digit number using recursion.

Q4) What is preprocessor? Explain its role in C++. What are different types of preproces-sor? Explain with examples.

Section – C   *(1 × 10 = 10)*

Q5) What is constructor? How it is different from destructor? Write a C++program to im-plement the concept of copy constructor.

Q6) What Is static function and friend function? Write C++ program to implement the con-cept of static and friend function.

Section – D   *(1 × 10 = 10)*

Q7) n? How it is different from pure virtual function? Write a program in C++ to implement the concept of pure virtual function.

Q8) What is random access file? Write a program in C++ to count the number of vowels in a file.

Section – E   *(10 × 2 = 20)*

Q9) a) What is scope of variable? Explain.
    b) What is operator precedence? Explain.
    c) What is polymorphism? Explain.
    d) What is dynamic memory allocation? Explain.
    e) Explain the difference between exit and break statement.
    f) Write a C++ program to implement the concept of conditional operator.
    g) What is use of scope resolution operation in C++? Explain.
    h) What is inline member function? Illustrate with program.
    i) What is container class? Explain.
    j) What is storage class? Explain.

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