[Total No. of Questions - 9]   [Total No. of Printed Pages - 2]
(2124)

1772

MCA 1st Semester Examination

Programming Methodologies (C & C++) (NS)

MCA-101

Time : 3 Hours   Max. Marks : 60

e candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Select one question from section A, B, C and D. Section E is compulsory.

SECTION - A

1. What is datatype? Explain different datatypes in C++.   (12)

2. (a) What is meant by library function? Discuss any four library function of C language.   (10)

    (b) Differentiate between syntax and semantic errors.   (2)

SECTION - B

3. Discuss different decision making statement available in C++ by giving suitable example.   (12)

4. (a) How is call-by-value method of parameter passing is different from call-by-reference? Explain.   (9)

    (b) Explain recursion in C.   (3)

SECTION - C

5. Discuss any four string manipulation function in C/C++.   (12)

[P.T.O.]

6. (a) What is meant by a pointer? Also explain different operations that can be performed on pointers.   (9)

    (b) Explain the concept of linked list.   (3)

SECTION - D

7. Write a program in C/C++ to create a copy of a text file. (12)

8. What is a structure? How a structure can be defined? Also explain the concept of accessing individual members of structure.   (12)

SECTION - E

9. Define the following:

    (i)   Compiler.

    (ii)   Assembly language.

    (iii) Expression.

    (iv)   Enumerated datatype.

    (v)   Scanf() function.

    (vi)   get ch() function.

    (vii) Return statement.

    (viii) Function definition.

    (ix)   Array.

    (x)   Indirection operator.

    (xi)   Data file.

    (xii) System I/O.   (12×1=12)