Time : $2\frac{1}{2}$ Hours]   [Total Marks : 70

1 (a) Attempt following questions :   4
       (1) Full form of ASCII.
       (2) Full form of BCD.
       (3) Full form of RAM.
       (4) Full form of GB.
   (b) Answer in brief :   2
       What is Computer ?
   (c) Answer in detail.   3
       Explain Analog and Digital computer.
   (d) Write note on.   5
       Explain Mainframe and Super Computer.

2 (a) Attempt following questions :   4
       (1) Full form of PCI.
       (2) Full form of ROM.
       (3) Full form of EBCDIC.
       (4) Full form of USB.
   (b) Answer in brief.   2
       What is Unicode ?
   (c) Answer in detail.   3
       Explain Binary to Octal, Decimal and Hexa Decimal
       conversion.

(d) Convert the following : 5
    (a) $(101011)_2 = (?)_{10}$
    (b) $(125)_{10} = (?)_2$
    (c) $(ABC)_{16} = (?)_2$
    (d) $(10101)_2 + (11000)_2$
    (e) $(10100)_2 - (01001)_2$

3   (a) Attempt following questions. 4
    (1) Full form of GIS.
    (2) Full form of GPS.
    (3) Full form of WiFi.
    (4) Full form of PPM.
    (b) Answer in brief. 2
    What is GPS ?
    (c) Answer in detail. 3
    Explain Working of Modem.
    (d) Write a note on. 5
    Explain EMAIL.

4   (a) Attempt following questions. 4
    (1) Full form of CLI.
    (2) Full form of GUI.
    (3) Full form of KBPS.
    (4) Full form of CDMA.
    (b) Answer in brief. 2
    What is Hard Copy and Soft Copy ?
    (c) Answer in detail. 3
    What is Virus ? Explain types of virus.
    (d) Write a note on. 5
    Explain compiler and Interpreter

5   (a) Attempt following questions. 4
    (1) _____ developed C language.
    (2) List any two header files in C language.
    (3) What is keyword ?
    (4) What is variable ?

(b) Answer in brief. 2
Explain Flowchart.

(c) Answer in detail. 3
Explain Relational Operators in C language.

(d) Write a note on. 5
Explain Logical operators in C language.

6 (a) Attempt following questions. 4
(1) C is also called Middle level language. (True/False)
(2) _____ is a graphical representation of programming.
(3) Algorithm is a textual representation of programming. (True/False)
(4) Define term Type Conversion.

(b) Answer in brief. 2
Explain Data Types in C language.

(c) Answer in detail. 3
Write a program to enter any number and check that no. is odd or even.

(d) Write a note on. 5
Write a program to check entered year is leap year or not.

7 (a) Attempt following questions. 4
(1) What is scanf() ?
(2) Define term printf().
(3) Define term sqrt().
(4) Define term strlen().

(b) Answer in brief. 2
Explain goto statement.

(c) Answer in detail. 3
Explain nested if statement

(d) Write a note on. 5
Explain while loop with example.

8 (a) Attempt following questions. 4
(1) for and while loop is entry controlled loop (True/False)
(2) _____ is a exit controlled loop.
(3) _____ statement is used to terminate from the loop.
(4) goto is also called jumping statement. (True/False)

(b) Answer in brief.   2
Explain if...else statement.

(c) Answer in detail.   3
Explain break statement with example.

(d) Write a note on.   5
Explain for loop with example.

9 (a) Attempt following questions.   4
(1) Array index start with _____ .
(2) Full form of UDF.
(3) Define term recursion.
(4) Define pointer.

(b) Answer in brief.   2
What is pointer ?

(c) Answer in detail.   3
Explain UDF.

(d) Write a note on.   5
Explain Array with example.

10 (a) Attempt following questions.   4
(1) Collection of similar data is called array. (True/False)
(2) Collection of different data is called structure. (True/False)
(3) Define term Arguments.
(4) List the types of UDF.

(b) Answer in brief.   2
What is Array ?

(c) Answer in detail.   3
Explain Nesting Functions.

(d) Write a note on.   5
Explain structure with example.

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