BRAINWARE UNIVERSITY

Term End Examination 2022
Programme – Dip.CSE-2018/Dip.EE-2018/Dip.ECE-2019/Dip.CSE-2019/Dip.ME-2019/Dip.CSE-2020/Dip.CSE-2021/Dip.EE-2021/Dip.ME-2021
Course Name – Computer Fundamentals
Course Code - DCSE010201/DECE106/DCSE106/DME106/DEE105
(Semester I)

Full Marks : 70   **Time : 3:0 Hours**
[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A
(Multiple Choice Type Question)   1 x 15=15

1.   *Choose the correct alternative from the following :*

(i)   What is the size of datatype char (32 bit compiler)?

a) 2 bytes   b) 4 bytes
c) 1 byte   d) 8 bytes

(ii) state which is primary memory?

a) HDD   b) CD
c) RAM   d) Flash Drive

(iii) State ASCII value of Y is

a) 89   b) 122
c) 90   d) 121

(iv) Which of the following operator has the highest precedence?

a) is most important   b) is used first
c) is faster   d) operates on large numbers

(v)   Select which operator is used to access each elements of a structure without using pointer?

a) dot   b) arrow
c) indirection   d) direction

(vi) Choose the correct option by using semicolon at the end is ……. in declaring a structure.

a) mandatory   b) optional
c) never required   d) None of these

(vii) Select the correct answer for the output of: (say, address of i is 100) void main(){ int i=3; int *p; p=&i; printf("%d",*p); }

a) 3   b) 100
c) 103   d) error

(viii) Evaluate the correct option for * used in pointer

a) Direction operator   b) Indirection operator
c) Star operator   d) Multiply operator

(ix) Identify Which of the following is not keyword of 'C' ?

   a) auto   b) register
   c) int   d) function

(x) Identify Which of the following operator has right to left associativity?

   a) &&   b) %
   c) sizeof   d) none

(xi) Identify A declaration float a,b; occupies …….. of memory ?

   a) 1 bytes   b) 4 bytes
   c) 8 bytes   d) 16 bytes

(xii) The operator / can be applied to

   a) integer values   b) float values
   c) double values   d) all of these

(xiii) Select the size of following structure declaration (16 bit compiler)? structure Test { int x; char y; float z; } ;

   a) 7 bytes   b) 4 bytes
   c) 1 bytes   d) 3 bytes

(xiv) Select the size of following structure declaration (16 bit compiler)? structure Test { int x; char y; float z; } ;

   a) 7 bytes   b) 4 bytes
   c) 1 bytes   d) 3 bytes

(xv) Select the size of following structure (16 bit compiler)? struct sample { int x; int y,z; } ;

   a) 6 bytes   b) 12 bytes
   c) 7 bytes   d) None of these

Group-B
(Short Answer Type Questions)   3 x 5=15

2. Compare between local variable and global variable.   (3)
OR
   Justify the concept of relational operator, logical operator and bitwise operator.   (3)
3. Discuss data types along with their types with proper examples.   (3)
OR
   Explain the types of error.   (3)
4. Determine the syntax of: if statement, if-else statement and nested if-else statement.   (3)
OR
   Computer the difference between while and do-while loop.   (3)
5. Explain the use of array.   (3)
OR
   Compute a 2D array with proper syntax and initialization   (3)
6. Compare the difference between an array and a structure.   (3)
OR
   Deduce pointer with proper example.   (3)

Group-C
(Long Answer Type Questions)   5 x 8=40

7. Recommend a C program to check vowel or not using switch case.   (5)
8. Define a computer system with suitable block diagram.   (5)
9. Compare between RAM and ROM.   (5)
10. Illustrate a C program to find the reverse of a string without using strrev( ) function. (5)
11. Identify the three types of loops with proper syntax and example.   (5)
OR
   Recall the difference between compiler and interpreter.   (5)
12. Discuss the function in C and write a user-defined function to find the sum of two   (5)
   numbers.

OR

Compare call by value and call by reference with an example. (5)

13. Express the types of number systems. (5)

OR

Ask the advantages and disadvantages of switch-case over if-else. (5)

14. Recommend a program to find length of a string without using pre-defined function. (5)

OR

Editorialize File in C programming language in details (5)

****