



BRAINWARE UNIVERSITY

Course – B. Tech.(CS)

Basic Computation and Principles of Programming (BCSE101)

(Semester – 1)

Time allotted: 3 Hours

Full Marks : 70

[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)

10 x 1 = 10

1. *Choose the correct alternative from the following*
 - (i) C language is invented in _____.

a. 1968	b. 1970
c. 1971	d. 1972
 - (ii) How many keywords are present in C language?

a. 26	b. 32
c. 108	d. 40
 - (iii) Which one is a keyword?

a. pointer	b. malloc
c. string	d. do
 - (iv) In UNIX system the size of a character is

a. 2 bit	b. 8 bit
c. 4 bit	d. 6 bit
 - (v) Logic error is obtained in

a. Run time	b. Compilation time
c. Loading time	d. Linking time
 - (vi) ASCII stands for

a. American Standard Code for Information Interchange	b. American Standard Code for Instruction Interchange
c. American Standard Code for Interchange Institute	d. American Secured Code for Information Interchange

8. (a) What are the different data types in C? [5]
 (b) Briefly discuss about storage classes in C. [5]
 (c) Write short note on array of pointer. [5]
9. (a) Write a program to find the maximum of 10 numbers using user defined functions. [5]
 (b) Write a C program to find the multiplication of two matrices. The size of matrices and the data must be user-input. [10]
10. (a) Differentiate between 'break' and 'continue' with an example. [5]
 (b) Write a C code to print the following pattern using "while" loop

```

      *                *
    * *              * *
  * * *            * * *
* * * * *        * * * * *

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- [10]
11. (a) What is Dynamic Memory Allocation? Give Example. [5]
 (b) Write a C program to print the Fibonacci series using function call. [5]
 (c) What is "EOF"? How a file can be read by a C Program? What are the different modes in which a file can be read? [1+2+2]