

Examination: Odd Semester Examination 2017

Paper Name: Basics of Computer Programming
Time: 3 Hours

Paper Code: BFTC 105
Maximum Marks: 70

Note: Mobile Phones or Scientific Calculator or any equipment with memory are not allowed inside the examination hall.

Follow proper numbering for answering the questions.

Attempt all questions from Section A and attempt any four questions from Section B.

Section A

1. Rewrite the following code after making appropriate corrections: (6)

```
#include<studio.h>
#include<conio.h>
void main ( )
{
    char character a;
    char *p;
    a = 3;
    p = a;
    printf(("%c", *p) ("%c", *p));
    getch();
}
```

2. Perform any three of the following conversions (show each step): (6)

a) $(16)_{10} = ()_2$ b) $(1010)_2 = ()_{10}$
c) $(81)_{10} = ()_8$ d) $(11)_{16} = ()_{10}$

3. Using a suitable example describe the for, while and do-while loops in detail. (6)

4. Write a note on any three of the following concepts of C language: (6)

a) Array b) Structure c) Pointer d) Function

5. Write a program in C to print the table of 2. (6)

Section B

6. Write a program in C to add two (integer) matrices. (10)

7. Using an example, differentiate between Call by Value and Call by Reference. (10)

8. How is a Structure different from a Union? Explain with an example. (10)

9. Write a program in C to find the length of a string without using strlen(). (10)

10. Describe the various String Library Functions available in C, using example(s). (10)

11. Sort the following array of integers in ascending order using Bubble Sort (show each step): (10)

7 4 5 9 1

Also write the code for such a sort.