

(ii) break, continue and goto statements

UNIT – III

5. (a) What do you understand by passing arguments ?
Illustrate using suitable examples.
- (b) What are various operations on strings ?
6. (a) Describe different types of storage classes available in C language.
- (b) How are arrays accessed through pointers ?
Illustrate using suitable example.

UNIT – IV

7. (a) Illustrate use of structures in a C program using example of your own.
- (b) Describe formatted console I/O functions. How are they different from unformatted console I/O functions ?
8. (a) Explain use of fopen (), fclose (), fgetc () and fputc ().
- (b) What are various steps involved in debugging ?
What is the use of Macros in C ?

Roll No.

67012

MCA 1st Semester (with old notes) Examination – December, 2016

COMPUTER FUNDAMENTALS AND PROGRAMMING

IN C

Paper : MCA-102

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* from each Unit. All questions carry equal marks.

UNIT – I

1. (a) What is basic structure of Computer ? What are applications of Computer to the Society ?
- (b) Explain working of any *two* input or output devices.

2. (a) Differentiate between :

- (i) Compiler and Interpreter
- (ii) Linker and Loader

(b) Define Computer Virus. What are remedial solutions for a virus infected computer ?

UNIT - II

3. (a) Differentiate between :

- (i) Top-down and Bottom-up approach
- (ii) Pseudo codes and program coding

(b) (i) Find out the output of the following :

```
main ( )
{
    int i, j, k, a;
    i = 2;
    j = 5;
    k = (++i) * (j--);
    a = k + (i++) - (++i);
    printf ("%d%d", k, a);
}
```

(ii) Find out the errors from the following :

```
main ( )
{
    int i, j;
    for (i = 1, i <= 2, i++)
    {
        if (i == 2 && j == 2);
        goto abc;
    }
    else
        printf ("%c %c", i, j);
}
abc;
printf ("Best of Luck");
```

4. (a) What are applications of Decision Tables ? What errors we encounter while executing a program ?

(b) Differentiate between :

- (i) while and do while loops