



MBE-003-006307

Seat No. _____

B. Sc. (Bioinformatics) (Sem. III) Examination

November / December – 2016

**BI-304 : Programming in C
(Old Course)**

Faculty Code : 003

Subject Code : 006307

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) All questions are compulsory.
(2) The right side figure indicates total marks of the question.

SECTION - I

1 Answer the short answer questions : 20

- (1) C language was developed by _____.
- (2) Which format specifier is used for printing a character ?
- (3) Array element indeed starts from _____.
- (4) What is the range of signed int data type ?
- (5) && is a _____ type of operator.
- (6) What is the result of variable i after executing following code ?

```
#include<stdio.h>
#define a 3+3
void main ()
{
    inti;
    i = a*a*a
    printf ("%d", i);
}
```
- (7) In C language variable name can start with a symbol.
True or false?

- (8) Pointer is used to _____.
- (9) Which header file is included for standard input and output statement in C.
- (10) A file can be opened with the help of _____ function.
- (11) Which looping structure is known as exit control loop ?
- (12) strlen (), strcpy (), strcmp () comes under _____ header file.
- (13) What is the answer of variable X after executing following code ?
- ```
X = 2;
++X + X ++;
printf ("%d" , X);
```
- (14) Which of the statement is used to terminate loop in between ?
- (15) How to declare floating type pointer variable ?
- (16) Which operator is used to find out the remainder ?
- (17) What would be the output of the following code?
- ```
#include <stdio.h>

void main ()
{
    int letter = 'A';
    printf ("%d", letter);
}
```
- (18) Which is the default storage class specification of variable ?
- (19) In which mode file is opened for modification ?
- (20) Structure and union is the user-define data type. True or false.

SECTION - II

- 2** Answer the following questions : **25**
- (a) Answer the following : (any three) **6**
- (1) Explain the naming rules of variable.
 - (2) Draw and explain structure of C.
 - (3) Write a short note on type casting in C.
 - (4) What is expression in C ? List out expression available in C.
 - (5) Explain conditional operator with example.
 - (6) Explain simple if condition with syntax and example.
- (b) Answer the following questions : (any three) **9**
- (1) Write a note on tokens of C.
 - (2) List out operators available in C and explain any one with example.
 - (3) Explain the jumping statement in C.
 - (4) Explain printf () and scanf () function with syntax example.
 - (5) Explain entry control and exit control loop with example.
 - (6) Write a program to print following pattern with for loop
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- (c) Answer the following questions : (any three) **10**
- (1) Write a short note on Storage classes in C.
 - (2) Explain any five built-in library functions with example.
 - (3) Explain condition structure switch in detail.
 - (4) Write a program to print Fibonacci series in C.
 - (5) Draw a flowchart to input 3 numbers and find maximum out of them. Also write algorithm of the same.

- 3** Answer the following questions : **25**
- (a) Answer the following : (any three) **6**
- (1) Differentiate break and continue.
 - (2) Differentiate local and global variable.
 - (3) Explain getch () and getche () function.
 - (4) Differentiate structure and union.
 - (5) Explain fopen () and fclose () function.
 - (6) Explain get c() and putc() function.
- (b) Answer the following questions : (any three) **9**
- (1) Define array. List out types of array and explain one dimensional array with example.
 - (2) Explain data types in C.
 - (3) Explain goto label with syntax and example.
 - (4) Write a short note of flowchart.
 - (5) Differentiate signed int and unsigned int.
 - (6) Write a program to write a data into file.
- (c) Answer the following questions : (any three) **10**
- (1) What is structure ? Explain concept of structure with example.
 - (2) What is UDF ? List out types of UDF available in C. Explain any two with syntax and example.
 - (3) Write a short note on file handling in C.
 - (4) Write a program to find factorial of given number using recursive function.
 - (5) What is pointer ? Explain points with array by giving suitable example.