



ME-P-1010

Seat No. _____

M. C. A. (Sem. I) Examination

January - 2018

P-1010 : Introduction to Programming using C

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

[Total Marks : 70

- 1 The following questions from unit-1
- (a) Attempt the following objective questions : 4
- (1) How many keywords in C language?
 - (2) Is Main a key word in C?
 - (3) The format identifier '%d' is also used for _____ data type.
 - (4) Is a default case necessary in a switch statement?
- (b) Attempt any **one** out of two from the following : 2
- (1) What is the difference between declaration and definition of a variable?
 - (2) What is the use of printf() and scanf() functions?
- (c) Attempt any **one** out of two from the following : 3
- (1) What is for loop? Explain with nested for loop.
 - (2) Explain The? : Operator with example.
- (d) Attempt any **one** out of two from the following : 5
- (1) Explain flow chart with suitable example.
 - (2) What is infinite loop? Explain with example.
- 2 The following questions from unit-2 :
- (a) Attempt the following objective questions : 4
- (1) Define an array.
 - (2) Define getchar()
 - (3) Differentiate putc() getchar()
 - (4) Explain strcpy()
- (b) Attempt any **one** out of two from the following : 2
- (1) Explain sting in C.
 - (2) Differentiate 1D and 2D array.

- (c) Attempt any **one** out of two from the following : **3**
- (1) Initialization of a two dimensional arrays in C and print it.
 - (2) What is the difference between single quoted and double quoted declaration of char array?
- (d) Attempt any **one** out of two from the following : **5**
- (1) Write a program to print reverse data from integer array.
 - (2) Write a program to compare two strings.

3 The following questions from unit-3 :

- (a) Attempt the following objective questions. **4**
- (1) How can we access structure members?
 - (2) What is the key word to declare union for C program ?
 - (3) What is the output of this C code?

```
#include <stdio.h>
void main ()
{
    struct student
    {
        int no;
        char name[20];
    };
    struct student s;
    no = 8;
    printf("%d", no);
}
```

- (4) Number of bytes in memory taken by the below structure is

```
#include <stdio.h>
struct test
{
    int k;
    char c;
};
```

- (b) Attempt any **one** out of two from the following : **2**
- (1) What is difference between structure and union.
 - (2) What is a nested structure?
- (c) Attempt any **one** out of two from the following : **3**
- (1) Write a C program to find size of structure.
 - (2) What are the differences between structures and arrays?
- (d) Attempt any **one** out of two from the following : **5**
- (1) Write a program to pass entire structure to function named display and print content.
 - (2) Write a program to receive student name and five subjects marks in a structure for five students.
- 4 The following questions from unit-4
- (a) Attempt the following objective questions : **4**
- (1) What is an array of pointers?
 - (2) Nesting of structure is not allowed in c true or false.
 - (3) What is size of pointer?
 - (4) What will be output if you will compile and execute the following c code?
- ```
void main (){
 int i;
 double a=5.2;
 char *ptr;
 ptr=(char *)&a;
 for(i=0;i<=7;i++)
 printf("%d ",*ptr++);
}
```
- (b) Attempt any **one** out of two from the following : **2**
- (1) What is pointer arithmetic?
  - (2) Explain nested function.
- (c) Attempt any **one** out of two from the following : **3**
- (1) What is the difference between user defined function and library function?
  - (2) What are the rules for passing an array to a function? Explain with example.

- (d) Attempt any **one** out of two from the following : **5**
- (1) Write a C program to find the length of a string using pointer.
  - (2) Write program in C to use pointer to pointer.
- 5** The following questions from unit-5
- (a) Attempt the following objective questions **4**
- (1) What are the types of files in C file handling.
  - (2) What is the meaning of "rb" in the following fopen ("E:\\cprogram\\old program.bin", "rb");
  - (3) Explain following  
FILE \*fptr;
  - (4) What is the meaning of "wb+" in file opening ?
- (b) Attempt any **one** out of two from the following : **2**
- (1) Explain fseek() with all parameters.
  - (2) Explain getc() and putc().
- (c) Attempt any **one** out of two from the following : **3**
- (1) Explain Functions fread() and fwrite()
  - (2) List and explain various file opening modes.
- (d) Attempt any **one** out of two from the following : **5**
- (1) C program to find number of lines in a file.
  - (2) Write a C program to read name and three subject marks of n number of students from user and store them in a file.
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