

G-11-20

Roll No.....

Annual Examination, 2020

B.Sc. Part I

COMPUTER SCIENCE

Paper II

(Programming in C Language)

Time : 3 Hours]

[MAXIMUM MARKS : 50

Note : Section 'A' is Objective type and is compulsory. It should be written on the **first page** of Answer-book. Section 'B' is Short answer type and Section 'C' is Long answer type.

SECTION 'A'

(Multiple Choice Questions)

Choose the correct answer : **1×10=10**

- (i) What is the size of an data type :
- (a) 4 byte (b) 8 byte
- (c) Depends on compiler
- (d) Cannot be determined.
- (ii) Which of the following is not a logical or relational operator :
- (a) != (b) ==
- (c) || (d) =.

P.T.O.

(iii) What is the output of the following C code :

```
#include<stdio.h>

void main( )
{
    int x=5;
    if (x < 1)
        printf("hello");
    if (x==5)
        printf("hi")
    else
        printf("no");
}
```

- (a) hi (b) hello
(c) no (d) error.

(iv) A is similar to except fact that it is guaranteed to execute at least one time.

- (a) do while, while (b) while, do while
(c) for, while (d) do while, for.

(v) The value obtained in the function is given back to main by using

- (a) return (b) static
- (c) new (d) volatile.

(vi) Which statement is right about the following pointer declaration :

int*ptr, p;

- (a) ptr is a pointer to integer, p is not
- (b) ptr and p both are pointers to integer
- (c) ptr is a pointer to integer, p may or may not be
- (d) ptr and p both are not pointer to integer.

(vii) Which string function returns the number of characters in string :

- (a) strlen() (b) strlen()
- (c) strlent() (d) strchr().

(viii) Collection of dissimilar data types called :

- (a) array (b) structure
- (c) pointer (d) None of the above.

(ix) fopen will return, if there is any error while opening a file :

- (a) Nothing (b) EOF
- (c) NULL (d) depends on compiler.

- (x) Comment on fputc() :
- (a) write a character into a file
 - (b) read a character from file
 - (c) write a line into a file
 - (d) read a line from file.

SECTION 'B'

(Short Answer Type Questions) 3×5=15

Note : Attempt **five** questions from this section by selecting one question from each question. Answer within 100 words.

1. Write a 'C' code to demonstrate relational operator.

Or

Explain various unformatted I/O functions.

2. Write difference between while and do while loop.

Or

Describe library and user defined function.

3. What is array ? Explain about its type.

Or

Write difference between structure and union.

4. What is pointer ? Explain with C code.

Or

Describe pointer to pointer with example.

5. Write short note on file handling.

Or

Explain fgetc and fputc.

SECTION 'C'

(Long Answer Type Questions) 5×5=25

Note : Attempt **five** questions from this section by selecting one question from each question. Answer within 300 words.

1. Describe the following :

- (a) Keywords (b) Tokens
- (c) Type casting (d) Variables
- (e) Constants.

Or

Describe various operators used in C.

2. Write a C program to demonstrate function using array.

Or

Explain the concept of call by value and call by reference with example.

3. Write a program in C to add elements of two dimensional array.

Or

What do you understand by structure ? Explain structure to function with example.

4. Explain the concept of pointer and array with example.

Or

Write a 'C' program to demonstrate pointer arithmetic.

5. Explain various C preprocessor with example.

Or

Write a C program to read and write content of file.

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