

2023

**INFORMATION TECHNOLOGY**

Paper: INTO100204

**(Introduction to Computer programming)**

Full Marks: 60

Pass Marks:

Time: Two and a half hours

**The figures in the margin indicate full marks for the questions.**

1. Answer the following questions as directed:

1 x 8 = 8

a) 24 bytes = ..... bit. (Fill up the blank).

b) Write the statement terminating symbol in C?

c) int \*p means p is a pointer type integer. (Write True or False).

d) C is a High-Level Language. (Write True/False).

e) What will be the maximum size of a float variable?

- i) 1 byte
- ii) 2 bytes
- iii) 4 bytes
- iv) 8 bytes

f) Which operator is used for assignment in C?

- i) == ii) = iii) != iv) ->

g) Which of the following is not a keyword in C programming?

- i) main ii) int iii) printf iv) int-5

h) What is the result of the expression 8%4 in C?

- i) 0 ii) 4 iii) 2 iv) 8

2. Answer **any six** from the following questions:

2x6=12

a) What is an Array?

b) Differentiate between '==' and '='.

c) Write the difference between 'while' loop and 'do-while' loop.

d) What are the different types of storage classes in C language?

e) Write the function of fclose() and fseek().

f) What is a flowchart?

g) What are the basic data types in C language?

~~h)~~ What is a pointer in C?

i) What is the use of printf() and scanf() functions?

j) What is the getch() function used in C?

3. Answer **any four** of the following: 5x4=20

a) What is a file? What are the operations performed on a file?

b) Write an algorithm to find the sum of two numbers.

c) Draw a flowchart to check whether a number is odd or even.

d) What is loop? What are the different types of loops available in C programming language?

e) Define ternary operator with a suitable example.

f) How to declare and initialize struct in C?

g) What is recursion in C? Give an example of recursion in C.

h) What is break in C? Give one suitable example.

4.

Answer the following questions (**any two**):

10x2=20

~~a)~~ Write a C program to find the biggest among three number.

~~b)~~ Write a C program to find factorial of a number.

c) What is a pointer in C? What is the usage of the pointer in C?

d) Write a C program to add two matrices using array.

e) Write AC Program to Calculate the Average of All Numbers in The Array.