I-11-22   Roll No....................

Annual Examination, 2022

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)   To write a comment we use .... in C.

   (a) \n   (b) \b

   (c) //   (d) None of these

(ii) The following function is used for single character input in C :

   (a) put C   (b) puts

   (c) get C   (d) None of these   P.T.O.

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(iii) A C program :

   (a) Need not contain any function

   (b) Most contain a function

   (c) Needs input data

   (d) None of the above

(iv) Function that calls itself is called ....
function.

   (a) Iterative

   (b) Recursive

   (c) Both (a) and (b)

   (d) None of these

(v)   The array index starts with .... in C.

   (a) 1   (b) 2

   (c) 0   (d) – 1

(vi) Size of structure in C is :

   (a) Sum of total bytes size occupied by all its members

   (b) Size of the smallest element of it

   (c) Size of the largest element of it

   (d) None of the above

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(vii) Malloc (), calloc () & free () functions definitions are contained in :

(a) String.h   (b) Stdlib.h

(c) Stdio.h   (d) Conio.h

(viii) A pointer is a special variable :

(a) That stores address of another variable

(b) That is not stored in memory

(c) Both (a) and (b)

(d) None of the above

(ix) The function fread () :

(a) is used to write to a file

(b) is used to read from a file

(c) can both read and write to the file

(d) None of the above

(x) The following function is used to open a file :

(a) Copen ()   (b) Open ()

(c) Open F   (d) Fopen ()

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. Explain formatted I/O in brief.

Or

Explain the history of C.

2. Discuss if else with an example.

Or

What are break and continue statement ? Also, write the difference between them.

3. What are Strongs ? How can they be declared and initialised ?

Or

What is type deaf statement ? How can it be used ?

4. Explain the use of & and * operators.

Or

Write difference between character array and char pointers.

5. Define the # define directive with example.

Or

What is a file pointer ? How can it be declared and used ?

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SECTION 'C'

(Long Answer Type Questions)   5×5=25

Note : *Attempt five questions from this Section by selecting one question from each question. Answer with in 300 words.*

1. Describe the structure of C program.

Or

Describe the data types used in C.

2. Discuss for loop with example in C.

Or

What are components of a function ? Explain in brief.

3. Discuss union with an example.

Or

Discuss enum with an example.

4. What are various dynamic memory function used in C ? Explain.

Or

Explain how can we use pointers to structures in C.

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5. Explain conditional compilation directives.

Or

Explain the use of fprintf() with a program.

✿ ✿ ✿ ✿ ✿ c ✿ ✿ ✿ ✿ ✿