1306E611   Candidate's Seat No :_____

B.Sc. Sem.-2 Examination
CC-3 - 103
Computer Science
Time : 2-00 Hours]   **June 2022**   [Max. Marks : 50

Instructions:All Questions in SECTION 1 carry equal marks.
Attempt any THREE questions in SECTION 1
Question 9 in SECTION II is COMPULSORY

SECTION I

Q-1		**Write the following.**	
	(A)	What is programming language? Explain the types of programming language in detail.	(07)
	(B)	Explain compiler,interpreter,linker & loader with the process of compilation.	(07)
Q-2		**Write the following.**	
	(A)	What is C?Explain the basic programming structure of c with example.	(07)
	(B)	What is Operators & expression?Explain all operators in detail with relevant example.	(07)
Q-3		**Write the following.**	
	(A)	Explain conditional statement in detail.	(07)
	(B)	Explain looping statements in detail.	(07)
Q-4		**Write the following.**	
	(A)	What is array ? Explain the declaration and initialization of one dimensional and two dimensional array with an example.	(07)
	(B)	Define string. How string is declared and initialized ? Explain string input/output functions with an example.	(07)
Q-5		**Write the following.**	
	(A)	What is function ? Explain the difference between user defined and library functions.	(07)
	(B)	Explain function call, function definition and function prototype with examples.	(07)
Q-6		**Write the following.**	
	(A)	What is a pointer? Write a C program to find the sum and mean of all elements in an array using pointer.	(07)
	(B)	Explain pointer with array and string with example.	(07)

P.T.O

Q-7   **Write the following.**

(A)   What is structure? Explain the C syntax of structure declaration with   **(07)**
example.

(B)   Give the difference between Array and Structure.   **(07)**

Q-8   **Write the following.**

(A)   Explain array of structure and structure within a structure with an example.   **(07)**

(B)   What is union? Explain the C syntax of structure declaration with example.   **(07)**

SECTION II

Q-9   **MCQ**   **(08)**

(1)   Who is the father of C language?
a) Steve Jobs   b) James Gosling   c) Dennis Ritchie   d) Rasmus Lerdorf

(2)   Which of the following is not a valid C variable name?
a) int number;   b) float rate;   c) int variable_count;   d) int $main;

(3)   All keywords in C are in _____
a) LowerCase letters   b) UpperCase letters
c) CamelCase letters   d) None of the mentioned

(4)   Which of the following is true for variable names in C?
a) They can contain alphanumeric characters as well as special characters
b) It is not an error to declare a variable to be one of the keywords(like goto, static)
c) Variable names cannot start with a digit
d) Variable can be of any length

(5)   Which of the following typecasting is accepted by C language?
a) Widening conversions
b) Narrowing conversions
c) Widening & Narrowing conversions
d) None of the mentioned

(6)   Functions can return enumeration constants in C?
a) true   b) false   c) depends on the compiler   d) depends on the standard

(7)   Property which allows to produce different executable for different platforms in C is called?
a) File inclusion   b) Selective inclusion
c) Conditional compilation   d) Recursive macros

(8)   The C-preprocessors are specified with _____ symbol.
a) #   b) $ c) " "   d) &

— X —