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## Pri. of Pro. Lan. (Through 'C')

## B.C.A. (Part-I) EXAMINATION - 2022

(Faculty of Science)

(Three-Year Scheme of 10+2+3 Pattern)

## PRINCIPLES OF PROGRAMMING LANGUAGE (THROUGH 'C')

Time Allowed: Three Hours

Maximum Marks: 100

Answers of all the questions (Short answer as well as descriptive) are to be given in the main answer-book only. Answers of Short answer type questions must be given in sequential order. Similarly, all the parts of one question of descriptive part should be answered at one place in the answer-book. One complete question should not be answered at different places in the answer-book.

Write your roll number on question paper before start writing answers of questions.

Question paper consists of three parts.

All three parts are compulsory.

PART-I: (Very Short answer) consists of 10 questions of 2 marks each. Maximum limit for each question is upto 40 words.

PART-II: (Short arswer) consists of 5 questions of a narks each. Maximum limit for each question is upto 80 words.

PART-III: (Long answer) consists of 5 questions of 12 marks each with internal choice.

1. Attempt all questions. Each question carries 2 marks.

What do you mean by procedural programming language?

What is a keyword in C?

Define global and local variable in C with example.

What is a constant variable and how they are declared and initialized?

Define the use of goto statement with example.

What do you mean by entry-controlled loop and exit-controlled loop?

(g) What do you mean by pre-defined and user defined functions?

(h) Whatiania

(h) What is pointer variable?

(i) What do you mean by typedef?

What is structure? Write its declaration syntax.

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P.T.O.

10x2=20

	Attempt all questions. Each question carries 4 marks.	
2.	// - 1 1	
	Define the basic structure of opposition of data types in C along with their size and  What is data type? Draw the classification diagram of data types in C along with their size and	
	What is data type? Draw the classification diagram of data 3	
بعرب	range.	
	while and do while with example	
_	What is loops in C? Write difference between while and do while with example	
1.	Explain user defined and library functions in with example.	
4	for and hinomy to in file handling?	
	(e) What do you mean by a text file and binary file in file handling?	
	PART_III	
	Explain the history of evolution of C programming language. What is the basic concepts of C language?	2
3.	Explain the history of evolution of C programming language. What is the basic	
	OP.	0
	Write difference between Algorithm, Pseudocode and Flow Chart with proper example.	4
<u>ات</u>	I rite difference between Algorithm, I seemed and I	2
	Explain tokens in Clanguage with proper example.	-
<b>/</b> *	OR	2
. /	Explain Decision making statement with suitable example.	
لتعمل	1	2
5.	What is 2-D array? Write a code to declare and initialize a 2-D array.	
	OR  1	2
	Explain string handling functions in C.	_
6.	Explain formal and actual argument of a function. Write a program of call by reference in C.	2
0.	Explain formal discussion of	
	OR 6+6=1	2
	(a) What is null pointer and void pointer?	_
	(b) Explain pointer to pointer with proper example.	
	des	
	The state of the s	_
7.	What do you andersoning, me have	2
	with syntax. OR	
	Explain the following:	2
	(a) Typedef	
	(c) Size of structure	

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