2018

BCA 1st Semester Examination PROGRAMMING IN 'C'

PAPER-1102

Full Marks: 70

Time: 3 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer Q. No. 1 and any four from the rest.

1. Attempt any five questions:

5×2

- (a) What is the use of "#define" in C?
- (b) What is static function in C?
- (c) What do you mean by type casting?
- (d) What is variable and keyword in C?
- (e) What is enum in C?

- (f) What you mean by printf()?
- (g) What is the use of macro?

*p = 10; return 0;

}

- (h) What do you mean by syntax error?
- 2. (a) What is datatype? What are primitive datatype in C language?
 2+1

```
(b) Explain the output for the following piece of code:
   int main ()
   {
      int * p;
      P = (int *) malloc (size of (int));
```

.

(c) What do you mean by function prototype in clanguage?
Explain with suitable example.

2+2

- (d) What do you understand by the term "return type" of a function?
- (e) What is the behavioral difference when include header file in double quotes ("") and angular braces (< >)?

2

3

		a contract of the contract of	
3.	(a)	Explain the difference between function declarati	on an
		function definition with suitable example.	5
	(b)	What do you mean by Flow chart? Explain we example.	rith ar
	(c)	Define the term nested loop? Write down the diff	erenc
		between while and do while loop.	2+3
	(d)	What is the relational operator in C language.	2
4.	(a)	Why C is called procedural language?	2
	(b)	Explain the difference between global and local va	riable
			3
	(c)	Explain the difference between assembler, compile	er and
		interpreter.	5
	(d)	Write a C program to calculate the length of the	string
		using pointer (without using library function).	5
5.	(a)	Explain continue and break statement with an exa	: imple.
			3
	(b)	Distinguish between structure and union in C lang	uage.
			3
	(c)	What is array? Why it is necessary to give the size	of an
		array in array declaration?	1+2
	(d)	Write a C program to find all roots of a quadratic equ	ation.
		Ž.	c

6.	(a)	What do you mean by recursion in C language? Expla with suitable example.	
	(b)	Explain call by reference and call by value with suitable example.) 5
	(c)	Explain the following string functions:	_
		strcat, strcmp, strlen.	3
	(d)	Define printer to an array and array of pointers wi	tł
		suitable example.	3
7.	(a)	What is file?	1
	(b)	What are the basic file operation in C language explain	ir
		briefly.	2
	(c)	Explain the following functions:	
		fpute, fgets, fputs, fseek	4
	(d)	Write a program in C to copy the contents of one file	to
		another file.	6
	(e)	What is file pointer?	2