CBA-1594-U

B.C.A. First Semester

(End Semester)

Examination, Dec.-2019

COMPUTER SCIENCE & APPLICATIONS

Paper: CSA-CC-114

(Fundamentals of Programming using C)

Time: Three Hours] [Maximum Marks: 60

Note: The question paper is divided into three sections. Attempt questions as per direction. $1\times10=10$

SECTION - A

	(Objective Type Questions)				
Note:- Choose the correct option.					
1. (1) Compiler generate file:					
(a) Executable Code	(b) Assembly Code				
(C) Object Code			(d) None of the above		
(2) Comment in 'C' language is to be enclosed in					
(a) ##	(b)//	(c) <: >	(d) / * * /		
(3) The format identifier '%l' is also used for :					
(a) char	(b) int		(c) float	(d) double	
(4) What is the value of x in this 'C' code: void main()					
{					
int $x = 4* 5/2 + 9$;					
}					
(a) 6.75	(b) 1.85	set	(c)19	(d)3	
(5) Datatye of the controlling statement of a SWITCH statement can not of the type :					
(a) int	(b) char		(c) short	(c) float	
(6) The ' o'character indicates: http://www.dhsgsu.com					
(a) Where the string begins					
(b) Where the strings ends					
(c) Where the string is empty					
(d) The length of a string					

```
(a) Must contains at least one function
(b) Need not contain any function
(c) need input data
(d) None of the above
(8) The default parameter passing mechanism is:
                                                (b) Call by reference
(a) Call by value
(c) Call by value result (d) None of these
(9) What will be the output of the following 'C' code?
# include < stadio.n> http://www.dhsgsu.com
{
int a [3] = \{1,2,3\};
int^* p = a;
print f ("% p \ + %", p, a);
(a) Same address is printed
                                               (b) different address in printed
(c) Compile time error (d) Nothing
(10) What will be the output of the following 'C' code?
# include<stdio.n>
void main()
char* S = "hello";
charp^* P = S;
print f ("%C\ t %C", p [0], S [1];
(a) Run time error
                                                (b) hh
(c) he
                                                (d) hi
                                            SECTION - B
                          (Short Answer Type Questions)
                                                                    4 \times 5 = 20
Note: - Attempt any four questions. Each question carries five marks.
1. Define flowchart. Explain flowchart symbols.
2. Explain the basic data types in 'C'.
3. Write a program to display the following pattern —
```

(7) Any 'C' program....:

1 2 3 4

- 1 2 3
- 1 2
- 4. Explain the concept of recursion.
- 5. What is the use of pointers? Discuss concept of declaration and initialization of pointers.
- 6. Write a program in C language for adding two arrays. http://www.dhsgsu.com

SECTION - C

(Long Answer Type Questions)

 $3 \times 10 = 30$

Note:- Attempt any three questions. Each question carries ten marks.

- 1. Explain the following--
- (a) Compilters

(b) Interpreters

(c) Assemblor

(d) Source program

- (e) Object program
- 2. Explain the logical and bitwise operators used in C with necessary program.
- 3. Describe the decision making statements and looping statments in C with an example.
- 4. Explain the purpose of a function prototype. And write a 'C' program for addition of two numbers by using function.
- 5. Define structure in 'C'. Also specify the pointer and structure with examples.