CS/CB

# TILAK MAHARASHTRA VIDYAPEETH, PUNE BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)

## & SPECIALIZATION IN CYBER SECURITY (CS)

EXAMINATION : JUNE / JULY - 2022 SEMESTER - I

**Sub:** C **Programming** (BCA-141-20 / BCA -CS-141-20)

Date: 30 / 06 / 2022 Total Marks: 60 Time: 10.00 am to 12.30 pm

#### Instructions:

- 1. All questions are compulsory unless and otherwise stated.
- 2. Bold figures to the right of every question are the maximum marks for that question.
- 3. Candidates are advised to attempt questions in order.
- 4. Answers written illegibly are likely to be marked zero.
- 5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
- 6. Draw neat and labelled diagrams wherever necessary.

Q.1.	Fill	in the blanks.		(5)
	1. The prototype of the function can be used to		0	
		a) Define a function	b) Declare a function	
		c) run a function	d) None	
	2.	. Format specifier is used to print the memory address.		
		a) %a	b) %m	
		c) %s	d) %u	
	3. Which of the following cannot be the structure member.		be the structure member.	
		a) Another structure	b) function	
		c) Array	d) string	
	4 is the size of double data type.			
		a) 1	b) 2	
		c) 4	d) 8	
	5. What will fopen return, if there is any error while opening a file?		while opening a file?	
		a) NULL	b) EOF	
		c) BOF	d) Depends on compiler	
Q.2.	Sta	te True/False.		(5)

- 1. The C code 'for(;;)' represents an infinite loop.
- 2. Function can return multiple values.
- 3. Break causes early exit from the loop.
- 4. (9 % 2) gives 4
- 5. You can use one switch statement inside another switch statement.

#### Q.3. Answer the following. (Solve any 5)

(10)

- 1. What is the difference between a++ and ++a?
- 2. What will happen when you access the array more than its dimension?
- 3. What are comments in C?
- 4. What is the difference between gets() and scnaf()?
- 5. Why header files are included in C program?
- 6. What is the use of sizeof() operator?

#### Q. 4. Answer the following in detail. (Solve any 6)

(30)

- 1. Explain with example logical operators available in C.
- 2. Explain the switch statement with syntax and example.
- 3. What is an array in C? How will you access the values within the array?
- 4. Define the term function, Format arguments and Actual arguments with example
- 5. Describe different files opening modes in C
- 6. Explain the use of break and continue statement in loops with example.
- 7. Write a program to print following pattern

\*1

\*\*2

\*\*\*3

\*\*\*\*4

\*\*\*\*5

### Q. 5. Answer the following in detail. (Solve any 1)

(10)

- 1. Explain any five string manipulation library functions with examples.
- 2. Write a program to print factorial using recursive function.