# STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086 (For Candidates admitted during the academic year 2019-20 and thereafter)

### SUBJECT CODE: 19CS/MC/FC13

## B.C.A. DEGREE EXAMINATION – NOVEMBER 2022 FIRST SEMESTER

COURSE PAPER TIME	: MAJOR CORE : FUNDAMENTALS OF COMPUTING : 1 ½ HOURS			MAX. MARKS: 50
		SEC	CTION – A	
Answer all the	_			$(10 \times 1 = 10)$
Choose the b		and will list the file a	ttributes?	
a) -d		b) -w	c) –l	d) -s
2. Determine	the output of the	ne following code.		
int a=5,b;				
b=((a==5)?(3	):(2));			
printf("The va	alue of 'b' varia	ble is : %d",b);		
a) 3		b) 2	c) 5	d) 8
	he following alougging	lows you to examine b) breakpoint	the code at various stage) next	ges of its execution? d) continue
-	e function used t(x)	to find the square of b) pow(x,2)	_	d) sqrt(x,2)
5. #define pi= a) exte		b) local variable	c) global variable	d) symbolic constant
<ul><li>7. The logica</li><li>8</li><li>9. The diagra</li></ul>	_ command is ull operators in Command lists ammatic repres	C are and s the breakpoints in g	db. nm is called as	
	A	SECTION	ON - B	(5. 2. 10)
Answer ALL the questions:  11 What is the purpose of cat command in Unix?				$(5 \times 2 = 10)$
12. Is a++ dif	ferent from ++	a? Justify.		
13. How does	s the 'run' com	mand in gdb work?		
14. What is a	conditional op	erator?		
15. Differenti	ate break and o	continue.		

#### **SECTION - C**

### Answer any SIX of the following:

 $(6 \times 5 = 30)$ 

- 16. Discuss in detail about the structure of Unix file system.
- 17. Write a note on the directory related commands in Unix.
- 18. Describe debugging using gdb.
- 19. Explain the looping structures in C.
- 20. Discuss the purpose of arrays in C.
- 21. Write a brief note on scope of the variables in C.
- 22. Write a program to the factorial of a given number using recursion.
- 23. Is 'main' a built-in function? Justify your answer.

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