	1303 (Pages: 2) Name
	Reg. No
	THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018
	(CUCBCSS—UG)
	Complementary Course
	BCS 3C 03—PROBLEM SOLVING USING C PROGRAMMING
	(2017 Admissions)
lime	: Three Hours Maximum : 64 Marks
	Part A
	Answer all questions.
	Each question carries 1 mark.
1.	Name an entry controlled loop.
2.	If the integer variables a and b are holding the values 11 and 4 respectively, the expression a % produces the result ————.
3.	are collection of elements of the same data type.
4.	char txt [20]; How many bytes are allocated by this definition?
5.	Every string ends with ———.
6.	Which statement is used to skip a part of loop?
7.	Which statement is used for defining symbolic constants in C?
8.	Which is the conditional operator in C?
9.	Function declaration statements must end with a semicolon. (True/False)
	$(9 \times 1 = 9 \text{ mark})$
	Part B
	Answer all questions.
	12 days an questions,

- 11. What are pointers?
- 12. Write a program to check whether given number is divisible by 11 or not.
- 13. What are preprocessor directives? Explain with example.
- 14. Differentiate structure and union.

 $(5 \times 2 = 10 \text{ marks})$ 

Turn over

## Part C

## Answer any **five** questions. Each question carries 5 marks.

- 15. Differentiate between local and global variables with examples.
- 16. Write a program to find the factorial of a number using recursion.
- 17. Explain the different looping statements in C.
- 18. Write a program to find largest and second largest element in an array.
- 19. What do you mean by precedence of operators? Explain.
- 20. Explain the various arithmetic operations on pointers.
- 21. Write a C program to find transpose of a matrix.
- 22. What are the different string functions in C? Explain.

 $(5 \times 5 = 25 \text{ marks})$ 

## Part D

Answer any two questions.

Each question carries 10 marks.

- 23. Briefly explain the different forms of if statement with examples.
- 24. Given a line of text. Write a C program to:
  - (a) Find the no. of words.
  - (b) Convert all word's first letter to uppercase.
- 25. Describe the various categories of functions with examples.

 $(2 \times 10 = 20 \text{ marks})$