## TKN/KS/16/5989

# Bachelor of Science (B.Sc.) IT Semester–I (CBS) Examination PROGRAMMING METHODOLOGY IN "C" Paper—II

Time—Three Hours]

[Maximum Marks—50

**N.B.:**— (1) **All** questions are compulsory and carry equal marks.

(2) Draw neat and labelled diagrams wherever necessary.

### **EITHER**

- 1. (a) What is an algorithm? Write an algorithm to find out whether entered number is even or odd. 5
  - (b) Write short notes on:
    - (i) Iteration
    - (ii) Selection

5

#### OR

- (c) What is flowchart? Draw a flowchart to find out whether entered number is prime. 5
- (d) Explain different characteristic of Pseudo Code. 5

# **EITHER**

with example.

	(b)	What is Library function? Explain with example	any
		two Library functions.	5
	OR		
	(c)	What is Looping? Explain do-while Loop.	5
	(d)	What is type conversion? Explain in detail v	why
		type conversion is important.	5
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3.	(a)	What is array? Explain with example two dimensions	onal
		array.	5
	(b)	What are storage classes ? Explain.	5
	OR		
	(c)	Write short notes on:	
		(i) Strlen( )	
		(ii) Stremp()	5
	(d)	What is recursive function? Explain with exam	ıple.
			5
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(a) What are operators in "C"? Explain any four operators

5

	EITHER		
4.	(a)	Explain the following terms:	
		(i) Structure	
		(ii) Pointer 5	
	(b)	Write a program to create a Structure Employee with following member : Employee Id, Employee Name, Employee Designation and Employee Salary.	
	OR		
	(c)	Write a 'C' program to demonstrate pointer to pointer.	
	(d)	Write short notes on:	
		(i) Opening and closing a file	
		(ii) Command line arguments 5	
5.	(a)	What is sequence programming structure? What are different problem solving techniques? 2½	
	(b)	What are the bitwise operators available in C ? Explain any two of them with suitable examples. $2\frac{1}{2}$	
	(c)	What is a user defined function? Write a program to illustrate the function with argument and no return value. $2\frac{1}{2}$	
	(d)	What is Union ? How Union is different from	

21/2

structure ?