23SI-BCAP-MA-01-01001

Seat No. _____

BACHELOR OF COMPUTER APPLICATION Examination

BCA Semester - 1 JAN 24 (Reg.) JAN - 2024

CS-01: PROBLEM SOLVING METHODOLOGIES AND PROGRAMMING IN C

Faculty Code : 003

Subject Code : 23SI-BCAP-MA-01-01001

Time : 2 Hours] **[Total Marks : 50**

Q.1 (A)	Attempt Following 1. What is variable? 2. float data types occupies _____ bytes in memory. 3. C language is developed by _____	3
Q.1 (B)	Explain typecasting.	2
Q.1 (C)	Explain Variable in detail.	5
	OR	
Q.1 (A)	Attempt Following 1. What is middle level language. 2. What is header file? 3. How many keywords available in C ?	3
Q.1 (B)	Explain symbols of flowchart.	2
Q.1 (C)	Explain data types available in C.	5
Q.2 (A)	Attempt Following 1. What is nested loop? 2. List out entry control loop. 3. List out jumping statements	3
Q.2 (B)	Write down syntax of ladder if.	2
Q.2 (C)	Explain switch case with example.	5
	OR	
Q.2 (A)	Attempt Following 1. List out conditional statements. 2. Which loop execute at least once? 3. _____ jumping statement is used to exit from block.	3
Q.2 (B)	Difference between entry loop and exit loop.	2
Q.2 (C)	Explain for loop with example.	5
Q.3 (A)	Attempt Following 1. Which header file is used with string function? 2. _____ function is used to allocate memory runtime. 3. Which is default storage class.	3

Follow @shyamsireducation 7600301012 www.shyamsireducation.in

Q.3 (B)	Explain recursion.	2
Q.3 (C)	Explain call by value and call by reference	5
	OR	
Q.3 (A)	Attempt Following 1. _____ is header file for pow(). 2. What is UDF? 3. Write down syntax of calloc().	3
Q.3 (B)	Explain no argument with return value.	2
Q.3 (C)	Explain DMA functions.	5
Q.4 (A)	Attempt Following 1. What is string? 2. What is array? 3. How to initialize 1D array?	3
Q.4 (B)	Explain memory allocation of 2D array.	2
Q.4 (C)	What is array? Explain one dimensional array with example.	5
	OR	
Q.4 (A)	Attempt Following 1. What is pointer? 2. Which operator is used to get the address of variable? 3. String terminate with _____ character	3
Q.4 (B)	How to declare pointer variable?	2
Q.4 (C)	Explain pointer to array.	5
Q.5 (A)	Attempt Following 1. How to declare structure? 2. List out user define data types. 3. How to declare variable of union?	3
Q.5 (B)	How to initialize structure variable?	2
Q.5 (C)	Explain structure in detail.	5
	OR	
Q.5 (A)	Attempt Following 1. How to declare array of structure variable? 2. Which operator is used to access structure member? 3. How to declare structure variable?	3
Q.5 (B)	Explain nested structure.	2
Q.5 (C)	Explain array of structure.	5

JAM0101158649

Follow @shyamsireducation 7600301012 www.shyamsireducation.in