23SI-BCAP-MA-01-01001

Seat No. _____

BACHELOR OF COMPUTER APPLICATION Examination

BCA Semester - 1 DEC 23 (Reg.) DEC - 2023

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 3

1. What is variable?
2. float data types occupies _____ bytes in memory.
3. C language is developed by _____

Q.1 (B) Explain typecasting. 2

Q.1 (C) Explain Variable in detail. 5

OR

Q.1 (A) Attempt Following 3

1. What is middle level language.
2. What is header file?
3. How many keywords available in C ?

Q.1 (B) Explain symbols of flowchart. 2

Q.1 (C) Explain data types available in C. 5

Q.2 (A) Attempt Following 3

1. What is nested loop?
2. List out entry control loop.
3. List out jumping statements

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 3

1. List out conditional statements.
2. Which loop execute at least once?
3. _____ jumping statement is used to exit from block.

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 3

1. Which header file is used with string function?
2. _____ function is used to allocate memory runtime.
3. Which is default storage class.

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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 <math.h> 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

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