Q.20 Explain for loop with example. (CO2)

Q.21 Define reference (&) and dereference(*) operators. (CO4)

Q.22 Write the various differences between structure and union. (CO5)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Define data type. Explain the various types of data type in C in detail. (CO2)

Q.24 What is call by value and call by reference. Differentiate between call by value and call by reference with example. (CO2)

Q.25 Define string. Explain various string inbuilt functions in detail. (CO3)

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1st Year / Artificial Intelligence & Machine Learning

Subject : Programming Through C

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which of the following are valid decision-making statement in C? (CO2)

a) If b) Switch

c) nested if d) All of these

Q.2 Which of the following is not a characteristic of a good algorithm? (CO1)

a) Efficiency b) Clarity

c) Correctness d) Ambiguity

Q.3 Which function in C is used to terminate a program prematurely? (CO2)

a) exit() b) stop()

c) end() d) terminate()

Q.4 A function which calls itself is called a_____ function. (CO2)

a) Self function b) Auto Function

c) Recursive Function d) Static Function

Q.5 Size of union is size of the longest element in the union (CO5)

a) Yes b) No

c) May be d) Can't say

Q.6 What does the && operator do in C? (CO2)

a) Logical AND b) Bitwise AND

c) Logical OR d) Bitwise OR

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define pointer . (CO4)

Q.8 Any string end with_____ character. (CO3)

Q.9 No. of reverse words in C are_____. (CO2)

Q.10 Define local variable. (CO2)

Q.11 _____ operator is used for accessing structure elements. (CO5)

Q.12 A 'C' program has only one main function (T/F) (CO2)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What is parameter passing. Explain actual and formal parameters. (CO2)

Q.14 How strings are declared and initialized in C. (CO3)

Q.15 Explain printf() and Scanf() functions. (CO2)

Q.16 Define an algorithm. Write an algorithm for calculation of area of a rectangle. (CO1)

Q.17 Differentiate between break and continue statement with example. (CO2)

Q.18 What are relational operators in C? (CO2)

Q.19 Differentiate between debugging and testing. (CO1)