No. of Printed Pages: 4 Roll No.

180836/170836/82435

3rd Sem. / Trade-Comp, Mechatronics Subject : Programming in 'C'

M.M.: 100 Time: 3 Hrs.

SECTION-A

Note: Objective type questions. All questions are (10x1=10)compulsory 8x2 (Course Outcome/CO)

____is step by step solution procedure for Q.1 (CO-1) any problem.

Q.2 Printf() is user defined function is (CO-6) C.(True/False)

Q.3 Struct is keyboard in C.(True/False). (CO-5)

Unary operator has _____operand. (CO-3)

If - else statement is used for decision making(True/False). (CO-2)

Q.6 Which symbol is used as "address of" operator. (CO-11)

Array of character is called____ (CO-6)

number of Two dimensional array has_ (CO-10) subscript.

180836/170836/82435

Q.9	Write down the name of the function	used to
	00000	(CO-9)

Q.10 Which keyword is used for structure declaration? (CO-5)

SECTION-B

Note: Very Short answer type questions. Attempt any ten parts \$\display 3 10x2=20

Q.11 Define flowchart. (CO-1)

Q.12 a) Draw the symbol used for input / output in flowchart. (CO-1)

b) Give any one example for syntax error in C.

(CO-8)

Q.13 Write down the two types of parameters used in C. https://www.hsbteonline.com (CO-9)

Q.14 Define recursion. (CO-9)

Q.15 a) && is logical operator in C.(True/False) (CO-6)

b) % is arithmetic operator in C. (True/False)

Q.16 Name any two header files used in a C program. (CO-7)

Q.17 Write down the name of any two looping statements in C. (CO-2)

Q.18 Write the purposes of break statement in C. (CO-7)

180836/170836/82435

Q.19 Write two uses of pointers in C. (CO-11)

Q.20 a) Array is collection of data elements of different data types. (True/False). (CO-10)

 Name the header file which is used to handle standard library string function. (CO-7)

Q.21 Define union. (CO-5)

Q.22 Why array is called subscripted variable. (CO-10)

SECTION-C 5x8

Note: Short answer type questions. Attempt any five questions out of ten questions. 5x8=40

Q.23 Differentiate between structure and array.

(CO-4)

Q.24 Write a program to find transpose to matrix in C. (CO-10)

Q.25 Briefly explain the steps involved in development of a program. (CO-1)

Q.26 What is program debugging? Explain various types of errors with example. (CO-8)

Q.27 How many types of functions are used in C? Explain in brief. (CO-9)

Q.28 List any five characteristics of C. (CO-6)

(3) 180836/170836/82435

- Q.29 Discuss various basic data types available. in C. (CO-6)
- Q.30 Explain switch statement with syntax and example. (CO-2)
- Q.31 Explain difference between "address of" and " value at address" operator in C. (CO-11)
- Q.32 What is pointer? Explain the importance of pointer in array. (CO-4)

SECTION-D 2x10

Note:Long answer type questions. Attempt any three questions. 3x10=30

- Q.33 a) Explain the method of declaring structure and its variables. (CO-5)
 - b) How structure members are accessed? (CO-5)
- Q.34 Discuss all types of looping statements available in C. (CO-2)
- Q.35 Explain all types of operator used in C language by giving examples. (CO-6)
- Q.36 Differentiate between call by value and call by reference. Explain with the help of example. (CO-9)

(Note: Course outcome/CO is for office use only)

(4840) (4) 180836/170836/82435