

No. of Printed Pages : 4

Roll No.

121034

3rd Sem. / Eltx./ Mechatronics

Subject : Computer Programming and Applications

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note:Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) What is assembly language?
 - b) How do you print an address?
 - c) What is the purpose of printf() function?
 - d) Define any two in-built functions used in C language.
 - e) Why we use function in C language?
 - f) Define an interpreter.
 - g) What is use of continue statement?
 - h) What is if else statement used for?
 - i) What is a local variable?

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- j) What is the use of an assignment operator?
- k) What is flow chart?
- l) What is use for "memcpy".
- m) Define PSPICE.
- n) Define friend function used in C language.
- o) What do you mean by bitwise operators?
- p) How can I convert a string to a number?
- q) What is use of void in C program?
- r) What is Goto statement?

SECTION-B

Note:Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) What is the difference between call by value and call by reference?
 - ii) What do you mean by Assignment operator and Logical operator?
 - iii) Explain any four important advantages of C language?

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- iv) Write a program to multiply two numbers.
- v) Write a program of find out prime numbers from series.
- vi) Define GOTO statement with example.
- vii) How many types of Loops are there in C Language?
- viii) Write an algorithm to find the sum of any two float variables.
- ix) How can strings be represented in C language?
- x) Differentiate between structure and arrays?
- xi) What is the advantages of switch statement in C language?
- xii) What do you mean by header files? Explain two header files used in C.
- xiii) Explain various data types used in C language.
- xiv) What is the difference between flowchart and algorithm?
- xv) What is variable? Explain any two variables used in C language.

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SECTION-C

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

- Q.3 Define Arrays? Write a program to add two matrices.
- Q.4 Write a program to find our factorial of a number with recursion?
- Q.5 Define looping? Compare between for loop, while-loop & do-while loop with examples.
- Q.6 How can you create a program by using pointer in C language? Give example.
- Q.7 Define:
 - a) Various software applications used in Electronic Engineering
 - b) How can you create a program by using structures? Give example.

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