

No. of Printed Pages : 4

Roll No.

121543/031043

4th Sem. / Eltx. / ET / IC / Med Eltx.

Subject : Computer programming & Application

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1
- a) Define information.
 - b) Define constant.
 - c) What is the use of continue statement.
 - d) What is the purpose of getch () function.
 - e) Define expression.
 - f) Define PSIM.
 - g) What do you mean by logical operator?
 - h) Define flowchart.
 - i) Define formal arguments.
 - j) Define union.

(1)

121543/031043

- k) What is the use of for statement.
- l) Define low level language.
- m) What is the purpose of main () function.
- n) Define recursion.
- o) What do you mean by bitwise operator.
- p) What is the use of library function.
- q) What do you mean by string.
- r) What is file pointer.

SECTION-B

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

- Q.2
- i) What do you mean by header file? Explain any two header files used in C?
 - ii) Differentiate between function and recursion?
 - iii) Explain
 - a) If-else statement.
 - b) Nested if-else statement.

(2)

121543/031043

- iv) Write a program to calculate an average by using array.
- v) Write a program to check whether a number is odd or even.
- vi) Differentiate between array and structure.
- vii) What are the advantages of SWITCH statement in C language?
- viii) Write down the steps to create a database file. Give example.
- ix) What do you mean by assignment operator and logical operator.
- x) Define string? Write a program to compare two strings.
- xi) Define the need of information storage and retrieval of information.
- xii) What are variables? Explain any two variables used in C language?
- xiii) Explain four advantages of C language.
- xiv) What are various file operations available in C language.

xv) Define pointer why they are used.

SECTION-C

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

- Q.3 Define arrays? Explain various types of arrays with example.
- Q.4 Define looping? Compare between for loop, while-loop and do-while loop with example.
- Q.5 Define functions and their purpose? Compare between call by value and call by reference.
- Q.6 Write advantages of C program. Explain various data types in C.
- Q.7 Write a short note on any two
 - i) Various software applications used in electronic engineering.
 - ii) Difference between goto statement and switch statement.