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Roll No. ....

120825/0308245

**2<sup>nd</sup> Sem. / Comp**

**Subject : PROG IN C**

Time : 3 Hrs.

M.M. : 100

### **SECTION-A**

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

- Q.1
- a) Define algorithm?
  - b) What is program compilation.
  - c) Define program debugging.
  - d) Define syntax error.
  - e) Name the functions used for file input in "C".
  - f) Define Data Type?
  - g) What is the purpose of do-while loop.
  - h) What is go to statement.
  - i) How structure is declared.

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- j) Write two differences between structure and array.
- k) Define pointer to pointer.
- l) What is the difference between & and \* operator.
- m) What is array initialization.
- n) Define function prototype?
- o) What is the use of return statement?
- p) Can there be a function without main()?
- q) What is the purpose of if else statement.
- r) Write the use of header files?

### **SECTION-B**

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

- Q.2
- i) Write down features of good algorithm?
  - ii) Write down the steps in development of a program.

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- iii) Discuss the file reading operation in brief.
- iv) What is string. How it is similar to arrays?
- v) What are the various parts of C program?
- vi) Write a short note on call by value with suitable example.
- vii) What is pointer. Explain their importance.
- viii) Differentiate between switch and break statements.
- ix) Write short note on for loop?
- x) What is array? What are its benefits?
- xi) Write a short note on multi dimensional array.
- xii) Write down the differences between variable and constant.
- xiii) What are the differences between structure and union.
- xiv) What are header files? Explain any two commonly used header files in 'C'.
- xv) What are different types of expressions.

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## SECTION-C

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

- Q.3 What is flowchart? Draw a flowchart to find average of 10 numbers.
- Q.4 Why operator is used. Explain various types of operators with suitable example available in C language.
- Q.5 Write a program in C to find biggest of three numbers.
- Q.6 Explain various string related functions.
- Q.7 Write short note on:
  - a) Array of pointers
  - b) Array of structures
  - c) Unions

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