UBCCAT205 - Paper-IV : Programming Logic and Techniques and Introduction to C

P. Pages : 2

Time : Three Hours

Max. Marks : 40

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Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat and labelled diagram and use supporting data wherever necessary.
3. Avoid vogue answers and write specific answer related to questions.

1. **Either :**

a) Discuss in general the need of compilation process. **4**

b) "Computer understand only the language of 0's and 1's" - comment. **4**

OR

c) Where loader load the program? Explain it's needs. **4**

d) Write a short notes on : **4**

   i) Assembler

   ii) Compiler

2. **Either :**

a) What are development tools are available to solve programming problems? **4**

b) Define a algorithm? State it's advantages. **4**

OR

c) Explain following **4**

   i) Problem Analysis

   ii) Process Analysis.

c) Write an algorithm to check given number is even or odd. **4**

3. **Either :**

a) What is datatype? Explain it's role in defining variable. **4**

b) Write a 'C' program which accept any 5 digits number and program will perform sum of each digit and print. **4**

OR

c)   Explain following example.   **4**

      i)   Increment and Decrement Operator.

      ii)   Conditional Operator.

d)   Explain character set and keywords in 'C' language.   **4**

4.   **Either :**

a)   What is role of looping statement in 'C'? Explain 'while' statement.   **4**

b)   Write a 'C' language program to find factorial of given number.   **4**

OR

c)   Explain Syntax of 'if ----- else' statement also write 'C' program to find largest among two number.   **4**

d)   Explain use of 'break' and continue' with examples.   **4**

5.   Solve all the questions.

a)   Explain interpreter in brief.   **2**

b)   Explain symbols used to draw flowchart.   **2**

c)   Explain scanf ( ) statement in 'C'.   **2**

d)   Explain for loop with syntax.   **2**

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