

B.C.C.A.- I (CBCS Pattern) Semester-II
**UBCCAT205 - Paper-V - Programming Logic and Techniques &
Introduction to C**

P. Pages : 2

Time : Three Hours



GUG/S/25/10623

Max. Marks : 40

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

Either:

1. a) Define machine Language. How does it differ from High-Level language? 4
- b) What is compiler? Explain how does it work. 4

OR

- c) Explain the purpose of a loader in a computing system. 4
- d) What is assembly language? Explain in detail. 4

Either:

2. a) What is an algorithm? Write advantages and disadvantages of algorithm. 4
- b) What is the difference between process analysis and problem analysis? Explain. 4

OR

- c) Define flowchart. Explain its significance in programming and problem-solving. 4
- d) What are the essential elements involved in analysing a programming problem? 4

Either:

3. a) What is datatype? List and explain the various data types supported by 'C' language. 4
- b) Explain Increment and decrement operator with suitable example. 4

OR

- c) Explain conditional and logical operator with suitable example. 4
- d) Explain the various unformatted input output functions in C. 4

Either:

4. a) Define Loop explain for loop with an example. 4
- b) Write a detail note on: 4
- i) While
- ii) Do-----while

OR

- c) Write a program to print the sum of odd and even numbers between 1 and 100. 4
- d) Explain the concept of if---else ladder with suitable example. 4
5. Solve all the questions.
- a) What is High level Language? Explain. 2
- b) Explain time complexity of algorithm. 2
- c) What is type casting? Explain. 2
- d) Write a short note on break and continue statements. 2
