Total No. of Question : [4]　　　　　　　**Registration No. :** ☐☐☐☐☐☐☐☐☐

Programme Name : Bachelor of Chemical Engineering
Regular S.Y.B.Tech.Sem.IV ESE May / June 2023
IV SEMESTER (2021 BATCH)
201CHL 211-Computer Techniques in Chemical Engineering

Duration : 2 Hours　　　　　　　　　　　　　　　　　　　**Marks : 50**
Instructions :
1.Read questions carefully.

(Q1) **Attempt the following questions.**　　　　　　　　　　　　　　　[20.0]

　(1.1) Explain difference in C & C++ in details.　　　　　　　　　　[5.0]

　　　CO :- CO1
　　　Blooms Taxonomy :- Understand

　(1.2) Write the syntax for with flow chart, Design a program to sum of digits of five digit of　[5.0]
　　　given Number.

　　　CO :- CO1, CO2
　　　Blooms Taxonomy :- Understand

　(1.3) Create a program to find root of quadratic equation $ax^2+bx+c=0$.　[5.0]

　　　CO :- CO2, CO3
　　　Blooms Taxonomy :- Understand, Analyze

　(1.4) Write syntax for "if" and "nested if" statements with suitable examples.　　[5.0]

　　　CO :- CO3
　　　Blooms Taxonomy :- Analyze

(Q2) **Attempt any two of following questions.**　　　　　　　　　　　[10.0]

　(2.1) Construct a program to display two matrix and enter their sum in third matrix.　[5.0]

　　　CO :- CO4
　　　Blooms Taxonomy :- Apply

　(2.2) What do you mean by dimension of array write a program to read and display element　[5.0]
　　　of array?

　　　CO :- CO4
　　　Blooms Taxonomy :- Apply

　(2.3) Write different input statements in C++ with suitable example.　　　[5.0]

CO :- CO4
Blooms Taxonomy :- Apply

(Q3) **Attempt any one questions.** [10.0]

(3.1) Explain structure in details, it's type, declaration along example? [10.0]

CO :- CO5
Blooms Taxonomy :- Analyze

(3.2) Write different storage classes in functions. [10.0]

CO :- CO5
Blooms Taxonomy :- Analyze

(Q4) **Attempt any two of following questions.** [10.0]

(4.1) What is the object-oriented paradigm? Explain various feature of OPP? [5.0]

CO :- CO6
Blooms Taxonomy :- Understand

(4.2) Write program to illustrate the working of object and class in C++ programming. [5.0]

CO :- CO6
Blooms Taxonomy :- Understand

(4.3) Explain inheritance and based and derived classes using exam class shapes and & derived classes rectangle. [5.0]

CO :- CO6
Blooms Taxonomy :- Understand

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