

Department name: Computer Applications (Allied for chemistry)

Subject code: ACCH401S

Subject name : Computers In Chemistry

Staff name: A.Isabella Amali, Mr.David

UNIT -I:

5 marks:

1. What is c language? Write a simple c program
2. Write about programming languages
3. Give the structure of programming language
4. What is an algorithm?
5. Explain about flow chart?
6. What is a data type?
7. What are the fundamentals of c language?
8. What are identifiers? Explain with example
9. What are keywords? List out them with example variable
10. What is constant?
11. What is a variable? What are the rules to declare a.
12. What is a C token? Give an example?

10 marks:

1. Give an account on different data types
2. Give an account on history of computer
3. Write about the character set in C

UNIT-II:

5Marks:

1. What are operators? What are its types?
2. Write about formatted input and output in c

3. Write about library functions with example
4. Write a program to find a square root of a number
5. Write a program to find power of a number
6. Write a program to add three numbers
7. Write a program to find any one arithmetic operation

10Marks:

8. Give an account on various looping statements
9. Explain about different types of IF statement with example
10. Give an account on types of operators with example
11. Explain about BREAK, GOTO and LABEL with example
12. Write a program to do one arithmetic operation using switch case
13. Write a program to get five marks of a student using any one looping structure

UNIT-III:

5marks:

1. What is call by reference in function? Show it with example
2. Write a c program to calculate PH and POH
3. Write a c program to Determine solubility of sparingly soluble salts
4. What is a function? What are its types?
5. What is a function prototype?
6. How to declare and access a function in c.
7. Explain various types of functions with examples
8. Write a program to add two numbers using function

10 marks:

1. Give an account on function and its types with examples
2. Write a c program to Determine electro negativity of an atom from bond energy data using Pauling's relation

3. Write a c program to Determine lattice energy of a crystal using bond-land equation
4. Write about storage class.
5. Write a c program to Determine shapes of molecule or ions using VSEPR theory
6. Write a c program to Determine empirical formula from elemental analysis
7. Write a c program to calculate interplanar spacing for different planes in an orthorhombic crystal

UNIT-V:

5marks:

1. What is a structure? Give an example
2. What is an array? What are its types?
3. Write a c program to Determine the half life and average life of a radioactive nucleus

10 marks:

4. Give an account on arrays and its types with example
5. Write about various string functions with examples
6. Write a c program to Determine normality, molality and morality of solutions
7. Write a c program to calculate equivalent weight of acids, bases and salts

Unit V:

5marks:

1. Write a note on Application of CHEMDRAW?

10 marks:

1. Detail about the ISIS Draw for Organic and Inorganic Molecules