Course: Imperative Programming

Programme: F.Y.Bsc.IT

Practice Questions

UNIT-1

1. What is the difference between machine level language and high level language ?
2. Describe the structure of a C Program.
3. List and explain five desirable program characteristics
4. Explain the following with example: 1.Symbolic Constants 2 .Escape Sequences
5. Draw a flowchart to find the largest of three numbers.
6. Determine if the following constants are valid in Ci) 27,822 ii)0.8E 8 iii)"Name: iv)"1.3e-12" v) 0xBCFDAL
7. What is the role of a compiler and interpreter in programming?
8. Draw a flowchart to generate numbers from 1 to 10 .
9. What are the various datatypes in C ? Explain them.
10. What are the rule for all numeric constants in C.
11. What is a variable? How are they declared and used in expressions in C?
12. Determine if the following identifiers are valid in C. i)record1 ii)$tax iii) 123-45-6789 iv)address and name v)file_3

UNIT-2

1. Write a program in C to finds the Roots of a Quadratic Equation.
2. Explain the conditional operator and assignment operators in C with example.
3. Interpret the following C statements 1)scanf("%8d %*d %121f %121f",&a,&b,&c,&d);2)scanf("%c %c %c",&a,&b,&c);3)scanf("%d %d %f %f",&a,&b,&c,&d);
4. Write a program in C to solve the following expression $F = P(1+i)^n$
5. What is a relational expression? List all operators used with it.
6. Explain gets and printf statements used in C programming language.

7. Explain the increment and decrement operator in C with example

UNIT-3

1. Write a function in C to swap two integer variable using call by value and call by reference.
2. Write a function fact( ) in C to find the factorial of a number and use it to generate factorial of numbers from 1 to 10.
3. Explain the switch.. case statement in C with an example.
4. Explain the following used with function in C 1)function prototype 2)formal arguments 3)return expression
5. Describe the syntax of the for statement in C.
6. Write a program in C to generate the Fibonacci series 0, 1, 1, 2, 3, 4, . , n terms using a while loop.
7. Write a program in C to print reverse of a number.

UNIT-4

1. Explain the keywords in C 1)auto 2)register 3)static
2. What is meant by scope of a variable in a C program ?
3. What is a macro? Write a program in C to find the area of a rectangle and square using macros.
4. What is an array? How can a single dimensional array be initialized?
5. What are storage classes in C ? What are their scope in C ?
6. What are preprocessor directives in C? Explain #include and # define in C.
7. What are two dimensional arrays in C? How can they be declared and initialized in C?
8. Write a program in C to find the sum of 10 double values entered by the user.
9. Write a short note on strings in C.
10. Explain the following functions in C:- i)strcat( ) ii)strlen( ) iii)strcmp( ) iii)strcopy

UNIT-5

1. What is the concept of pointer to pointer in C? Give suitable example
2. Explain how members of a structure be accessed by a variable and a pointer in C.
3. What is an array within a structure and array of structure?
4. What are pointers in C? Write a program in C to add 2 float numbers using pointers.
5. Write a short note on pointer arithmetic in C.
6. Explain the terms "array of pointers" and "pointer to an array" in C.
7. Explain the declaration in C.
8. Explain the difference between structure and union in C.
9. Explain nested structure with help of example.