Question Bank -PIC

1) Discuss the usage of various types of input and output devices.
2) Define computer? Describe the functional units of computer with a neat block diagram.
3) Define operator? Classify the different types of operators in C with examples.
4) Analyze and Design an algorithm and flowchart to find the area of a circle.
5) Illustrate the formatted I/O statements with syntax and example programs.
6) Define data type and describe various data types with example.
7) Illustrate the structure of C program in detail
8) Write a C program to swap 2 numbers without using temporary variable.
9) Explain the four categories of hardware devices.
10) Define the following with example.
11) token ii) keywords iii) identifier iv) variable.
12) Explain the input and output statements, with examples
13) What is variable? Explain the variable initialization.
14) Explain the following operators with example.
    i) Relational ii) Increment iii) Conditional iv) Special Operators.
15) Explain the postfix and prefix expressions, with examples.
16) What is typecasting. Explain the types with example.
17) Explain the different types of conditional branching statements ?
18) Explain the different types of unconditional branching statements ?
19) Classify and explain looping statements (repetitional statements) available in C with syntax and examples
20) What is an array? Explain declaration and initialization of 1 dimensional and 2 dimensional array
21) What is a string ?How to declare and initialize a string, explain with an example.
22) ? Explain the unformatted i/o functions(i.e gets, getchar, puts, putchar).
23) Explain the following string functions
    i) strlen(str)
    ii) strcpy(dest, src)
    iii) strncpy(dest, src, n)
    iv) strcat(str1, str2)
    v) strncat(str1, str2, n)

vi) strcmp(str1, str2)
vii) strncmp(str1, str2)
viii) strrev(str)
ix) strlwr(str)
x) strupr(str)

24) Explain the elements of user defined function (UDF) with example?

25) Explain different way of designing user defined function

OR

Briefly explain the following designs of user defined functions with example

i) Void function without parameters
ii) Void function with parameters
iii) Non Void function without parameters
iv) Non Void function with parameters

26) Differentiate the global and local variables with an example programs ?

27) Differentiate between

a. Actual and formal parameters with example programs.

b. Call by value and call by reference with example programs.

28) Justify how pass by reference is better than pass by value method in functions ?

29) Illustrate the working of recursion with an example program ?

30) Define structure. Illustrate the declaration and initialization of structures with suitable examples.

31) Define pointers and give the declaration and initialization of pointers with suitable examples.

32) Explain the concept of pointer arithmetic with suitable example programs.