

MIT ACSC, ALANDI (D), PUNE

BCA SEMESTER-I QUESTION BANK 2008-09

SUB:PRINCIPLES OF PROGRAMMING AND ALGORITHM

1. Explain the structure of 'C' programming with example.
2. What is function? Explain function as building blocks.
3. Explain precedence and Associativity?
4. What is the need of data type in programming? Explain.
5. What is operator? Explain different types of operators in 'C'.
6. Explain Console based Input Output functions in 'C'.
7. Explain concept of header file.
8. Explain escape sequences in C.
9. Explain format specifiers used with the printf () function.
10. Explain different types of c instructions.
11. What are the types of C constants?
12. What are different C keywords?
13. What are different types of C variables?
14. What are different data type qualifiers?
15. Explain conditional operator with example.
16. Explain preprocessor directives in C.
17. Explain if.....Else with example.
18. Explain working for multiple if with suitable example.
19. Explain switch with suitable example.
20. Explain any two loop control structure with Example.
21. Explain working of goto statement with example.
22. Explain working of FOR loop with Example.
23. What is loop? How can do.....While loop vary from While loop.
24. Explain any two problem solving Techniques?

25. What is algorithm? Explain characteristics of Algorithm.
26. What is Flowchart? Explain with Example.
27. What is mean by Time-Complexity? Explain Big-Oh notation.
28. What is argument? What are the actual and formal arguments?
29. What is function declaration?
30. What is function prototyping?
31. What is function? Explain function definition with suitable example.
32. What is returning function?
33. What is local and global variable?
34. Explain call by value and call by reference.
35. Explain the use of break, continue and goto statement in looping.
36. What is variable? Explain scope of variable.
37. Explain storage classes.
38. What is recursion? Explain it with example.

39. Write short note on
 - a) Loops in C
 - b) If statement
 - c) Higher Level Languages
 - d) Compiler

40. Write any two character input functions and two character output functions.
41. compiler creates which type of file?
42. Write features of C in detail.
43. Write all the primitive data types along with format specifier and size in bytes.
44. Write the syntax of size of operator and give example.
45. Explain basic types of function.

