UNIVERSITY OF CALICUT

First Semester Diploma in Information Technology Examination

MODEL QUESTION PAPER

DIT1C03 – Programming in C

(With effect from 2012 Admission)

Time: 3 Hours   Total Marks: 100

Part A

(Answer any 10; Each Question carries 3 mark)

1. What is an algorithm? Give a simple example.
2. What is a symbolic constant? Give its relevance.
3. Explain Constants in C.
4. Explain input output management in C.
5. What is a command line? Give its usage.
6. Differentiate between global and local variables used in C.
7. What is a string? How strings are handled in C?
8. Explain switch control structure with an example.
9. What is the use of *break* and *continue* statement in C language?
10. What is the use of *typedef* statement in C?
11. What are the different types of operators used in C?
12. What is a *goto* statement, explain with an example?
13. Differentiate between user defined and built in functions.
14. What is the difference between formal parameters and actual parameters?
15. Explain the use of *back slash* character constants in C.

Part B
(Answer any 10; Each Question carries 5 marks)

16. Explain the notations used in Flow Chart representation with the help of examples.
17. What are library functions? Give examples.
18. Explain different types of *datatypes* used in C.

19. Briefly explain the input output handling in C.
20. Write down the structure of a C program.
21. What is an array? Explain different types of arrays with suitable examples.
22. Explain string functions used in C.
23. How an array can be passed to a function? Explain with an Explain.
24. With the help of examples explain the structure of *if.. else* statement.
25. What is recursion? Explain with the help of an example.
26. Explain the concept of pointers. How pointers are declared?
27. Differentiate between structure and union.
28. What is a function? Explain the structure of a function.
29. Write a C program to find the sum and product of two numbers using functions.
30. Discuss the use of *while* and *do…. while* control structures in C.

Part C
(Answer any 2; Each Question carries 10 marks)

31. What are the decision making statements in C?
32. Write a program to multiply two matrices.
33. Explain various control structures in C language.
34. Illustrate various file handling operations in C.

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