MAHATMA GANDHI UNIVERSITY
M.C.A DEGREE EXAMINATION
MODEL QUESTION PAPER
(2011 Revised Syllabi)
First Semester

MCA 105 - STRUCTURED PROGRAMMING IN C

Time: Three Hours **Maximum: 75 Marks**

Part A

Answer any ten questions.
Each question carries 3 marks.

1. Define Algorithm with example.
2. Distinguish between keywords and identifiers?
3. What is meant by type conversion?
4. What is comma operator?
5. What is the importance of break and continue?
6. Explain function prototype.
7. What are the rules for using register variables?
8. What are self referential structures?
9. What are pre-processor directives?
10. What is recursion?
11. What is union?
12. What are command line arguments?

(10 x 3 = 30 marks)

Part B

***All questions carry equal marks*.**

13. a) Explain the basic structure of a C program and data types in C.

Or

b) What is structured programming? Discuss its advantages.

14. a) What are the commonly used I/O functions in C?

Or

b) Explain the different operators in C.

15. a) What is a character array? Explain the various string handling functions

Or

b) Write a program to copy one file to another. Specify the filenames at command line.

16. a) Explain how dynamic memory allocation is done in C. Discuss the operations on pointers.

Or

b) Write a program using structures to count the total number of days elapsed between two given dates.

17. a) What is a macro? Explain with suitable examples.

Or

b) Write a program to sort a list of strings using array of pointers. Explain the bitwise operations in C.

(5 x 9 = 45 marks)