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**Question Paper Code : 45876**

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Second Semester

Software Engineering

XCS 125/10677 SW 205 – PROGRAMMING IN C

(Common to 5 Year M.Sc. Computer Technology and M.Sc. Information Technology)

(Regulation 2003/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define Flow charts.
2. Compare between main() and void main ().
3. What is meant by constants?
4. Mention about the any four operators.
5. Define output operators.
6. List out the different types of arrays.
7. What is meant by character strings?
8. Define pointers.
9. What is file?
10. What is meant by link list?

PART B — (5 × 16 = 80 marks)

11. (a) Explain in detail about the algorithm and high level language.

Or

- (b) Describe about the basic structure of C program. Write a C program to implement matrix operations.

12. (a) Explain in detail about the variables and data types with suitable examples.

Or

(b) Describe in detail about the operators and expressions.

13. (a) Briefly explain about the Decision making and Branching with suitable C programs.

Or

(b) Discuss in detail about the looping and different types of arrays.

14. (a) Describe in detail about the user defined functions with suitable C program.

Or

(b) Explain in detail about the unions and pointers with suitable examples.

15. (a) Describe in detail about the file management in C and dynamic memory allocation.

Or

(b) Explain in detail about the link list and preprocessor.