

First Year B.Sc. (I.T.)

Paper No. 103: Problem Solving & Programming Using 'C'

Time: 3 Hours

*Aprile. 2016 - 8059*

Total Marks: 100

- Q.1 (a) What is programming language? Explain types of programming language. [10]  
(b) What is flow chart? Explain flow chart symbols and Draw a flow chart to find factorial of a number. [10]

OR

- Q.1 (a) Write a note on operators. [10]  
(b) What is algorithm? Write algorithm to find maximum from three numbers. [10]

- Q.2 (a) Explain types of conditional statements with example. [10]  
(b) What is data type? Explain various data types of C. [10]

OR

- Q.2 (a) What is loop? Explain types of loop with example. [10]  
(b) Explain switch case with syntax and example. [10]

- Q.3 (a) What is array? Explain one dimensional array with syntax & example. [10]  
(b) Write a program of binary search. [10]

OR

- Q.3 (a) What is 2D array? How to declare & initialize 2D array? Give example. [10]  
(b) What is sorting technique? Explain any sorting technique in detail with example. [10]

- Q.4 (a) What is pointer? How to declare & initialize pointer variable? Give example. [10]  
(b) Explain any five file handling functions with syntax, purpose & example. [10]

OR

- Q.4 (a) What is pointer? Explain pointer array with example. [10]  
(b) What is file? How to create, open & close file? Explain with example. [10]

- Q.5 (a) What is user defined function? Explain types of user defined function. [10]  
(b) Give difference between call by value and call by reference. [10]

OR

- Q.5 (a) What is function? How to declare, call & define function with example. [10]  
(b) What is recursion function? Explain with example. [10]

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