



MANIPAL INSTITUTE OF TECHNOLOGY (Constituent Institute of Manipal University) MANIPAL-576104



FIRST SEMESTER B.E DEGREE MAKE UP EXAMINATION PROBLEM SOLVING USING COMPUTERS (CSE-101/102) (REVISED CREDIT SYSTEM)

Note:	 Answer any 5 full Questions Answer to the point. Missing data may be assumed suitably. Answer the questions in the order of question numbers. 	ber.
1A. List and ex	explain the various types of ROM memory.	3 Marks
1B. Explain the	ne different symbols used in flowcharts	2 Marks
1C. Describe th	the various basic data types of C++.	2 Marks
1D. Define a v	variable. What rules are to be followed while naming variables	? 3 Marks
	rder the operations in the following expression is carried out? teps and the final result.	
	9-12/(3+3)*(2-1)*5	3 Marks
-	the three the second seco	
	given by D=(PurchasePrice - SalvageValue) /Years of Service	
1	rogram to compute depreciation when PurchasePrice, SalvageV	
	Service are given.	3 Marks
chart.	general format of else if ladder and switch statement along with	4 Marks
Chart.		4 Iviai K5
3A. Write a pro	rogram to	
(i) Accep	ept the elements into a matrix A of order m x n and elements in	to a
matri	ix B of order $\mathbf{p} \mathbf{x} \mathbf{q}$	
(ii) Displ	lay the matrices A and B in matrix form	
	tiply the elements of the two matrices A and B and store it in m display the resultant matrix C in matrix form	atrix C
		3= 5 Marks)

3.B. Write a C++ program to evaluate the summation of the Cosine series up to n specified terms **5 Marks**

 4A. Explain with syntax the built in string handling functions for performing the following operations. (i) Determining the length of the string (ii) Concatenating two strings. 4B. Write a C++ program to accept elements into a 1D array and sort the element descending order using bubble sort technique and display the same. 4C. Differentiate between entry controlled and exit controlled loops with exampted and exit control exit co	4 Marks ents in 4 Marks	
 5A. Declare a structure book containing the members authorname, pages and proceeded of the structure of a structure variables and initialize it with values. 5B. Write a function to read array elements. Write a function which takes as arguments the array name and size of the area returns the average of all the elements of the array. Use these two functions in the main appropriately to read and find the avera Display the array elements and the average in the main program. 5C. Which of the bitwise operator retains its original value when it is applied or operands having same value. Explain with example. 	3 Marks rray and age. 4 Marks n two 2 Marks	
 5D. List all the storage class of variables 6A. Create a class called car with member variables colour, cost, year of manufacture . Add member functions getdetails and display. getdetails is defined within the class, which takes all the information from the user. Another member function display defined outside the class which displays all the information. Instantiate an object of the class and invoke these functions on the object in appropriate order. 4 Marks 		

- 6B. Explain the difference between the macros and functions2 Marks
- 6C. Find the output of the following:

main()

{ int a[] = {1,2,9,8,6,3,5,7,8,9}; int *p= a+1; int *q= a+6; cout<< q-p <<*p+*q; } 6D. What are local and global variables?

2 Marks 2 Marks
