FACULTY OF ENGINEERING & INFORMATICS

B.E. I Year (New) (Common to all Branches) (Main) Examination, June 2011 Programming in C & C++

Time: 3 Hours] [Max. Marks: 75

Note: Answer all questions from Part A, answer any five questions from Part B.

	PART - A ENGG (25 Mar	ks)
1.	Define function. Explain characteristics of function.	3
2.	Differentiate between local & global variable.	2
3.	Define Array.	2
4.	Write a program to calculate cube of a number by using pointers.	3
5.	What are the various pre-processor commands?	2
6.	What is copy constructor?	2
7.	Explain the meaning of base class and derived class.	3
8.	What is the output of the following?	3
	#include <stdio.h> main () { unsigned int x,y; x = 128, y = 32; x = x>>1; printf ("After right shifting by 1x=%d", x); y = y<<2; } printf ("After left shifting by 2y=%d", y);</stdio.h>	
9.	Explain string handling Library functions.	3
10.	Define friend function.	2
	PART – B (50 Mai	rks)
11.	(a) Explain the various loops with simple program.	5
	(b) Write a program to find the sum of the following: $\cos x = 1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \frac{x^6}{6!} + \dots$	5
12.	(a) Explain with a program the different parameter passing	-

(b)

techniques.

Write a program for binary search using function.

5

5

13.	(a) *	List the operations performed on pointer variables.	5
	(b)	Write a program to find the matrix multiplication using pointers.	5
14.	(a)	Create a structure to specify data of customers in a bank. The data to be stored is: Account number, Name, Balance in account Assume maximum of 50 customers in the bank. (a) Write a function to print account number and name of each customer with balance below Rs. 1000.	a.
	(b)	Differentiate between structure and union.	4
15.	(a)	Explain the advantages of object oriented programming.	4
	(b)	Explain constructor with a program.	6
16.	(a)	Write a program to overload 'T' operator.	7
	(b) _	Explain various types of inheritances.	3
17.		e short notes on the following: Supplies the short notes on the following: Supplies the short notes on the following:	+ 4 + 3