

Code No. : 3316/N

FACULTY OF ENGINEERING & INFORMATICS

B.E. I Year (New) (Common to all Branches) (Main) Examination, June 2011

Programming in C & C++

Time : 3 Hours]**1: Max. Marks : 75****Note** Answer **all** questions from Part A, answer any five questions from Part B.**PART – A****(25 Marks)**

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 0
```

```
unsigned int xr ;
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);
```

Explain string handling Library functions'. 3

10. Define friend function. 2

PART – B**(50 Marks)**

11. (a) Explain the various loops with simple program. 5
 - (b) Write a program to find the sum of the following : 5
- $$\cos X \quad \uparrow \quad \begin{matrix} X^2 & X^4 & X^6 \\ 2I & 4I & -6I \end{matrix}$$
12. (a) Explain with a program the different parameter passing techniques. 5
 - (b) Write a program for binary search using function. 5

(This paper contains 2 pages)

1

P.T.O.

Code No. : 3316/N

13. (a) List the operations performed on pointer variable. 5
(b) Write a program to find the matrix multiplication using pointers. 5
1. 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 VON -', ;, balance below Rs. 1000. 6
(b) Differentiate between structure and union. 4
- it. (a) Explain the advantages of object oriented prOgramming. 4
(b) Explain constructor with a program. 6
- (a) Write a prograM to overload operator.
(b) Explain various, types of inheritances.
- Write short notes on the following : **3+4+3**
• (a) Function templates (b) Virtual function (c) Stream.