



ANANDALAYA
Weekly Test 2
Class 11

Subject: COMPUTER SCIENCE
Date : 08/12/2015

M.M: 25
Time: 1 Hour

Instruction: (1) All questions are compulsory.
(2) Programming language: C++.

Q-1 A Why function main() is important in c++ program? What will happen if main is not present in the program? 2

B Which C++ header file(s) will be essentially required to run/execute the following C++ code? 1

```
void main()
{
    int Rno=465;
    char SName[]= "Ajay Bhaskar";
    cout<<<Rno<<setw(25)<<SName<<endl;
}
```

D Give the output of the following program (Assuming that all required header files are included in the program) 3

```
void main()
{
    char a[]= "Exam-2016 AheAd";
    int i;
    for(i=0; a[i]!='\0';i++)
    {
        if(a[i]>= 97 && a[i]<=122)
            a[i]--;
        else
            if(a[i]>= '0' && a[i]<= '9')
                a[i] = a[i - 1];
            else
                if(a[i]>= 'A' && a[i]<= 'Z')
                    a[i]+ = 32;
                else
                    a[i]= '#';
    }
    cout <<a;
}
```

Q-2 Define a class Customer with the following specifications. 3

Data Members :

Customer_no	integer
Customer_name	char (20)
Qty	integer
Price	float
TotalPrice	float
Discount	integer
Netprice	float

Member Functions:

Readdata() → to read data members (Customer_no, Customer_name, Quantity and Price) and call Calcdiscout().

Dispdata() → to display data members (Customer_no, Customer_name, Quantity and Price & TotalPrice).

Calcdiscout () → To calculate Discount according to TotalPrice and NetPrice

TotalPrice = Price*Qty

If TotalPrice >=50000 → Discount 10% of TotalPrice

if TotalPrice >=50000 → Discount 20% of TotalPrice

Q-3 A Is it possible to give a same name to more than one function? What makes their definitions different from each other? 2

B Convert the following decimal number to binary : 4

(a) 13 (b) 106 (c) 84 (d) 22.25

C Convert the following octal number to decimal : 4

(a) 31 (b) 604 (c) 34 (d) 21

D Convert the following Decimal number to Hexa-decimal : 4

(a) 135 (b) 254 (c) 54 (d) 112

E Express -4 in two's complement form. 2