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CLASS XII –COMMON PRE-BOARD EXAMINATION Marking Scheme

Q1 (a) 1 mark for differences, 1 mark for examples

(b) iostream.h, iomanip.h ½ mark for each correct answer.

(c) Rewrite the following code after removing syntactical error(s), if any. Underline each correction made. 2

```
#include<iostream.h>
```

```
voidcall(int n1, int n2 = 20);
```

```
void main( )
```

```
{
```

```
intone = 10, two = 20;
```

```
call(one,two);
```

```
call(two);
```

```
}
```

```
voidcall(int n1, int n2 = 20)
```

```
{
```

```
n1 = n1 + n2;
```

```
cout<<n1<<n2;
```

```
}
```

(d) iv) 29 : 26 : 25 : 26 :

(e) 30%41

52%60

40%25

(f) 101 x 150 x 50

101 x 152 x 50

101 x 202 x 49

Q2(a) Encapsulation means binding of code and data. In C++ it's implemented by defining class. Object is real instance of a class.

The data members of an object is been assigned values by calling constructors (default, parameterized, copy) and calling member functions which performs user input.

(b) (i) Its known as Destructor, its invoked when an object is destroyed i.e. when a function/program (local/global) gets over

(ii) function 1 – default constructor ½ mark

Definition ½ mark

Function 2- parameterized constructor ½ mark

Definition ½ mark

(c) Class definition carries ½ mark

calcFare() carries 1 mark

Book() carries ½ mark

Print() carries ½ mark and call of calcFare() carries ½ mark

(d) (i) Multiple Inheritance

(ii) getEmp(), showEmp(), Input(), Output()

(iii) data members ½ and member function ½ mark each

(iv) 40 bytes

Q3 (a) void func(int a[], int size)

```
{
    int a2[20][20];
    inti,j;
    for(i = 0; i < size; i++)
    {
        for(j = 0; j < size; j++)
        {
            if(i > j)
                a2[i][j] = a[j];
        }
    }
}
```

```

else
a2[i][j] = 0;
cout<<a2[i][j];<<" ";
    }
cout<<endl;
}
}

```

(b) (i) Row Wise: 1056 (ii) Column Wise: 1088

(c) void pop(Student *top)

```

{
    Student *ptr = top;
if(ptr == NULL)
cout<<"Underflow";
else
{
cout<<"element being deleted is ";
cout<<"Roll no"<<top ->Rollno;
cout<<"Name"<<top -> Name;
top = top -> Next;
deleteptr;
    }
}

```

(d) const int n =5;

void diag(int a[n][n], int n)

```

{
int i,j;
cout<<" Diagonal One :";

```

```

for(i=0; i<n; i++)
cout<<a[i][i]<<" ";
cout<<" Diagonal Two :";
for(i=0; i<n; i++)
cout<<a[i][n-i-1]<<" ";
}

```

(e) ABCD-* E/+

Q4 (a) Statement 1- f.seekg(ios::end);

Statement 2- f.tellg();

(b) #include<fstream.h>

#include<string.h>

void count()

{

int c=0;

char word[80];

ifstream f("Amendment.txt");

while(!f.eof())

{

f>>word;

if(strstr(word,"amend"))

cnt++;

}

f.close();

cout<<"Number of words starting with amend are "<<cnt;

}

(c) File object ½ mark (opening mode)

Getting input 1 mark

appending 1 mark

file closing ½ mark

Q5 (a) ½ mark for each definition & ½ mark for each example.

(b)(i) Select SenderName from SENDER where SenderCity = 'Mumbai';

(ii) Select RecID, SenderName, Senderaddress, RecName, RecAddress from SENDER RECEIPTENT where SENDER.senderID = RECEIPTENT.SenderID;.

(iii) Select * from RECEIPTENT order by RecName;

(iv) Select count(*) from Receiptent group by RecCity;

(c) (i) New Delhi

Mumbai

(ii)

SenderName	RecName
R Jain	H singh
S Jha	P K Swamy

(iii)

RecName	RecAddress
S Mahajan	116, A ViharNew Delhi
S Tripathi	13, B1 D, MayurVihar

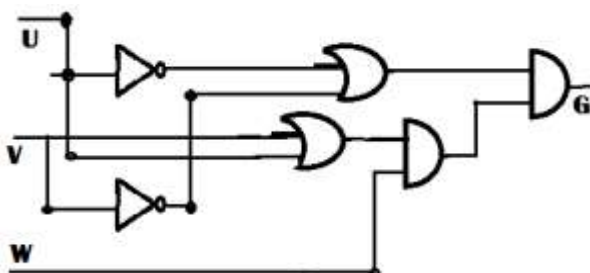
(iv)

RecID	RecName
ND08	S Mahajan
ND48	S Tripathi

Q6. (a) 1 mark for each Truth table.

(b) $(A + B' + C).(A + B' + C').(A' + B + C).(A' + B + C').(A' + B' + C)$

(c)



(d) $(P' + S').(P' + Q' + R')$

	$R + S$	$R + S'$	$R' + S'$	$R' + S$
$P + Q$				
$P + Q'$				
$P' + Q'$		0	0	0
$P' + Q$		0	0	

Q7 (a) ½ mark for each example

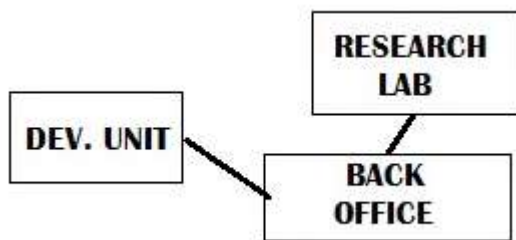
(b) 1 Mark for definition

(c) 1 Mark for definition

(d) (a) Research lab & Back office - LAN (b) Research lab & Dev unit - MAN

(ii) Switch/HUB (iii) Optical Fibre

(iv) for connecting to Mumbai office – Sattelite.



(e) Client side – (ii) & (iv) Server side – (i) & (iii)

(f) 1 mark for the difference

(g) 1 mark for the difference