

Roll Number		
-------------	--	--

C



## INDIAN SCHOOL MUSCAT SECOND PERIODIC TEST

### COMPUTER SCIENCE

CLASS: XII

Sub. Code: 083

Time Allotted: 50mts

13.09.2018

Max. Marks: 20

**GENERAL INSTRUCTIONS:**

All questions are compulsory.  
Programming language : C++.

1. a) What is the difference between ios::app and ios::ate? 1+1  
b) Explain significance eof() function.

2. Observe the program segment carefully and fill the missing statements where statement1 is to position the file pointer , statement2 is to write the record:  
class student

```

{
int student_no;
char student_name[20];
int mark;
public:
void enterDetail();
void showDetail();
void change_mark(); //Function to change the mark
int getStudent_no(){ return student_no;}
};
void modify( int y )
{
fstream File;
File.open( "student.dat", ios::binary | ios::in | ios::out );
student i;
int recordsRead = 0, found = 0;
while(!found && File .read((char*)& i , sizeof (i)))
{
recordsRead++;
if(i . getStudent_no( ) == 25 )
{
i . change_mark();


---

 //Missing statement 1 ,to position the file pointer


---

 //Missing statement 2, to write the record
found = 1;
}
}

```

```

}
if( found == 1)
cout<<"Record modified" ;
File.close();
}

```

3. Write a function in C++ add more records at the end of a file “CUST.DAT”, assuming the binary file is containing the objects of the following class: 3

```

class ORG
{
char Account_holder_name[20];
int Account_Number; float Balance;
public:
void input()
{ gets(Account_holder_name);
cin>> Account_Number>> Balance;
}
void display()
{
cout<<Account_holder_name<<Account_number<<Balance;
}
};

```

4. Given a sorted binary file BOOK.DAT(sorted in ascending order of bookid) 3  
containing records of the following type:

```

class Book {
int bookid;
char Bname[20], status; // 'A'- active , 'I'- inactive.
public:
void readdetails()
{
cin>>bookid; gets(Bname); cin>>status;
}
void displaydetails()
{
cout<<bookid<<Bname<<status;
}
int getid() { return bookid }
};

```

Write a function to insert a new book record (object) in the sorted file in the right position.

5. Explain a) NULL pointer b) Dynamic memory allocation 2

6. char Name[ ]= “IntRAnet”;  
char\* T=Name;  
T+=3;  
cout<<\*T<<\*Name<<endl;  
cout<<(T+2)<<Name+3;  
}

7. Find the output of the following program segment:

3

```
int A[ ]={12,18,20, 35,40};  
int *p=A;  
while(*p<30)  
{  
    if(*p%3!=0)  
        *p=*p+5;  
    else  
        *p=*p+2;  
    p++;  
}  
for(int j=0;j<=4;j++)  
{  
    cout<<A[j]<<"*";  
    if(j%3==0)  
        cout<<endl;  
}  
cout<<A[4]*3<<endl;  
}
```

8. #include<iostream.h>

3

```
#include<iostream.h>  
int a=20;  
void main()  
{  
void demo(int,int*);  
int a=10;int* p=&a;  
demo(::a,p);  
cout<<::a<<"::<<a<<"::<<*p<<endl;  
}  
void demo(int y,int *z)  
{  
y*=&z;  
*z+=a;  
cout<<a<<"::<<y<<"::<<*z<<endl;  
}
```

**End of the Question Paper**