

CHAPTER – 14 – CLASSES AND OBJECTS

I. Answer in brief(2 marks)

1. What are called members?
2. Differentiate structure and class though both are user defined data type.
3. What is the difference between the class and object in terms of oop?
4. Why it is considered as a good practice to define a constructor though compiler can automatically generate a constructor?
5. Write down the importance of destructor.

II. Answer in a brief(3 marks)

1. Rewrite the following program after removing the syntax errors if any and underline the errors:

```
#include<iostream>
#include<stdio>
class mystud
{ int studid =1001;
char name[20];
public
mystud( ) { }
void register ( )
{ cin>>studid; gets(name); }
void display ( )
{ cout<<studid<<”: “<<name<<endl;}
}
int main( )
{ mystud MS;
register.MS( );
MS.display( );
}
```



2. Write with example how will you dynamically initialize objects?
3. What are advantages of declaring constructors and destructor under public accessibility?
4. Given the following C++ code, answer the questions (i) & (ii).

```
class TestMeOut
{
public:
~TestMeOut() //Function 1
{cout<<“Leaving the exam hall”<<endl;}
TestMeOut() //Function 2
{cout<<“Appearing for exam”<<endl;}
void MyWork() //Function 3
{cout<<“Answering”<<endl;} };
```

- (i) In Object Oriented Programming, what is Function 1 referred as and when does it get invoked / called ?
- (ii) In Object Oriented Programming, what is Function 2 referred as and when does it get invoked / called ?

III. Answer in a paragraph (5 marks)

1. Mention the differences between constructor and destructor
2. Define a class RESORT with the following description in C++ :

Private members:

Rno // Data member to store room number

Name //Data member to store user name

Charges //Data member to store per day charge

Days //Data member to store the number of days

Compute()/*A function to calculate total amount as Days * Charges and if the total amount exceeds 11000 then total amount is 1.02 * Days *Charges */

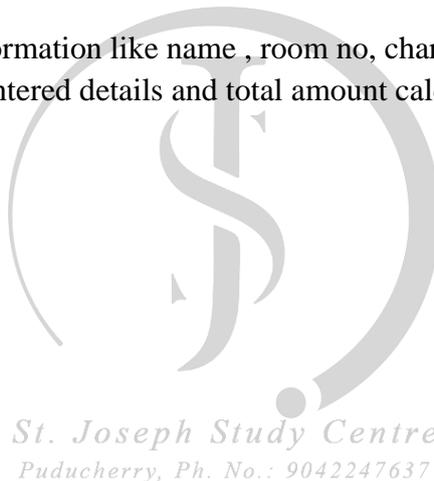
Public member:

GetInfo() /* Function to Read the information like name , room no, charges and days*/

DispInfo()/* Function to display all entered details and total amount calculated using COMPUTE function*/

3. Write the output of the following

```
#include<iostream>
using namespace std;
class student
{
int rno, marks;
public:
student(int r,int m)
{ cout<<"Constructor "<<endl;
rno=r;
marks=m;
}
void printdet()
{
marks=marks+30;
cout<<"Name: Bharathi"<<endl;
cout<<"Roll no : "<<rno<<"\n";
cout<<"Marks : "<<marks<<endl;
}
};
int main()
{
student s(14,70);
s.printdet();
cout<< "Back to Main";
return 0;
}
```



IV. Additional Questions

1. Write the general form of class definition
2. What is data hiding?
3. Write note on access specifier of a class
4. What is array of objects?
5. When is copy constructor called?

