Time Allowed	Objective Type	Total Marks
NOTE: There are NEGATIVE ONE	TWO MARKS for each correct answer in for each incorrect answer, write answers of	the following parts and on Answer Sheet
i. Which of the follo	wing is not an access specifier	
A. Private		
B. Public		
C. Personal	•	
D. Protected		
ii. For which of the o	ptions, following statement is true:	
"The attribute	can only belong to one instance"	
A. Association		1
B. Aggregatio		
C. Composition		
D. Inheritance		
E. Both A & B F. Both B & C		1
G. Both A & C		1
H. Both C & D		
I. A, B, & C op		1
))	
iii. Association is sub	set of aggregation	
A. True B. False		
B. raise		
iv. For which of the o	ptions, following statement is true:	
The state of the s	is part of the instance"	i
A. Association		
B. Aggregation		
C. Composition D. Inheritance		
E. Both A & B		
F. Both B & C o		
G. Both A & C		
H. Both C & D		
I. A, B, & C op	tions	
v. For which of the o	ptions, following statement is true :	9
"The part (mer	nber) does not know about the existence of the o	bject (class)"
A. Association		
B. Aggregation		
C. Compositio		
D. Inheritance		
E. Both A & B		
F. Both B & C o G. Both A & C		
H. Both C & D	•	
I. A, B, & C op	-	
vi. Why we use a Sin	gleton?	
A. To restrict		
	lata duplication •	
C. To restrict a		
D. To restrict	levelopment	



vii. For which of the options, following statement is true: "The part (member) has its existence managed by the object (class)"

A. Association

- B. Aggregation
- C. Composition
- D. Inheritance
- E. Both A & B options
- F. Both B & Coptions
- G. Both A & Coptions
- H. Both C & D options
- I. A, B, & Coptions

viii. For which of the options, following statement is true:

"The object (member) does not have its existence managed by the object (class)"

- A. Association
- B. Aggregation
- C. Composition
- D. Inheritance
- E. Both A & B options
- F. Both B & Coptions
- G. Both A & Coptions
- H. Both C & D options
- I. A, B, & C options
- ix. Stream in and out operator overloading can be done by two approaches (Member function)
 & Non Member Function)
 - A. True
 - B. False .
- x. For which of the options, following statement is true:

"The object (member) can belong to more than one object (class) at a time"

- A. Association
- B. Aggregation
- C. Composition
- D. Inheritance
- E. Both A & B options .
- F. Both B & C options
- G. Both A & Coptions
- H. Both C & D options
- 1. A, B, & C options

xi. For which of the options, following statement is true:

"The member may or may not know about the existence of the object (class)"

- A. Association
- B. Aggregation
- C. Composition
- D. Inheritance
- E. Both A & B options
- F. Both B & C options
- G. Both A & C options
- H. Both C & D options
- I. A, B, & Coptions

xii. What is true about class? It cannot have

- A. Multiple constructor
- B. Multiple Parameterised constructor
- C. Multiple destructor .
- D. Multiple Inheritance
- E. Multilevel Inheritance



```
a" relation is referred to
 A. Association
  B. Aggregation
  C. Composition
  D. Inheritance .
telationships are always between objects
    A. True
    B. False .
Which of the following is function overloading?
A. When same function with same name and parameters is re-written in a child class
 B. When a function prototype is given in a class while the implementation is done in cpp
 C. When a function is written with same name but different parameters .
 D. When a function is written as a member function
ri. Which of the following is not a characteristic of Object Oriented Programming?
     A. Data abstraction
      B. Data mining *
      C. Data encapsulation
      D. Polymorphism
vii. Hollow Diamond symbol in UML represents what?
       A. Association
       B. Aggregation
       C. Composition
       D. Inheritance .
 xviii. Static variables are the ones that are in global scope?
       A. True
       B. False
 xix.What we do to resolve diamond problem?
       A. Virtual Function
        B. Virtual Composition
        C. Virtual Inheritance .
        D. Virtual Aggregation
 xx. Structs have everything private by default?
       A. True
       B. False .
                                                                                            10
 Verify the code, identify if any issue(s) and write output of the following code with no
 compiler optimisation on Objective Answer Sheet.
 1.
       #include <iostream>
       using namespace std;
 2.
       class OOP {
 3.
 4.
            char grade;
       public:
            OOP() {
 6.
                  grade = 'F';
 7.
                  cout << "OOP Non Parameterised Constructor:
 8.
      "<<grade << endl;
            }
```

......

```
grade - g
11.
12.
             cout << "GOP Parameterised Constructors " <<
     grade<<endl;
13.
14.
15.
         OOP(const OOP4 other) (
16.
              cout << "OOP Copy Constructor; "<<other.grade <<
     end1;
17.
              grade - other.grade;
18,
19,
20.
         OOP& operator = (const OOP& other) (
              cout << "OOP Assignment Operator" << endl;
21.
22.
              grade = other.grade;
23.
              return *this;
24.
         )
25,
26.
         OOP compare (OOP other )
27,
28,
              cout << "My Grade " << grade<<endl;
cout << "Other Grade " << other.grade<<endl;</pre>
29,
              OOP local(grade<other.grade?grade;other.grade);
30.
31.
              return local;
32,
33.
          ~OOP() (
34.
35.
             cout << "OOP destroyed: " << grade<<endl;
36.
37. 1:
38.
39,
40.
     int main() (
41.
         OOP bsse23A('A');
         OOP bsse23B('B');
42,
43.
         OOP reference;
         OOP student = bsse23A.compare(bsse23B);
44.
         reference= student;
45.
46.
47.
         return 0;
48. 1
          DIP ron-Por ... i F
          OOP P.Nm-Parm.
          OOP Assign onerabor.
```





Section

me Allowed	Subjective Type	Total Marks	50
is class would be to keep marne data type together. (Main What decisions will you may or deep copied? Give code class and which won't be used.) Which of the characteristic class and which won't be used. If I have a Student Class, watype vs Student. d) Differentiate between Class.) List possible access specifications.	s of Object Oriented Programmir	memory allocation of ables for an array) will be shallow copied ing will be used in this dent " as template with Array Class	25 5 each
have used in Array Class In continuation to question 1, write answer for following part considering separate .h and .cpp files. So your answer should have prototype separate to definition of the functions below. A parameterised constructor (with parameter of the size of an array) and a Destructor Stream in operator (Based on size it will take input of all data elements from user) Stream out operator (display all elements) Operator + (As member function, it will combine the element wise data in an array of only arrays of same sizes) Operator - (As non member function, it will subtract element wise data in an array, only of same sizes)			25 5 each

1...