```
<Q> what is the output of the below given code snippet?
        let name: string = ` HSBC `;
        let year: number = 5;
        let sentence: string = `Hello, I work in ${ name }.
        I'll be completing ${ year + 1} years next month.`;
        console.log(sentence)
                      Hello, I work in HSBC .
                a)
                                    I'll be completing 6 years next month.
                      Hello, I work in name.
                b)
                                    I'll be completing year + 1 years next month.
                      Hello, I work in ${ name }.
                c)
                                    I'll be completing ${ year + 1} years next month.
                d)
                      Hello, I work in undefined.
                                    I'll be completing NAN years next month.
<Q>Which is/are the correct Expression/s to define the following function as Arrow function?
var calculateInterest = function (amount, interestRate, duration) {
return amount * interestRate * duration / 12;
}
        1. var calculateInterest = (amount, interestRate, duration) => amount * interestRate * duration /
        12;
        2. var calculateInterest = (amount, interestRate, duration) => {
        return amount * interestRate * duration / 12;}
        3. var calculateInterest = function (amount, interestRat, duration) => amount * interestRate *
        duration / 12;
        a)
              Both 1 and 2.
        b)
              All of these.
              Both 1 and 3.
        c)
        d)
              Only 2.
```

```
<Q>What is the output of below code:
```

```
1. var addition = (x:number) => x = x + 10;
2.
3. var display = (x) = >{
4.
                if(typeof x=="number"){
5.
                addition(x);
6.
                console.log(x);
7.
                console.log(x+" is numeric")
8.
        } else if(typeof x=="string"){
                console.log(x+" is a string")
9.
        }
10.
11.}
12.
13.
14. //function Call
15.
16. display("Jason");
17. display(123);
        a)
                Jason is a string
                    123 is numeric
                    133
        b)
              Jason is a string
                    133
                    123 is numeric
        c)
              133 is numeric
                    133
                    Jason is a string
        d)
              Jason is a string
                        123
                        123 is numeric
        e)
              Not Answered
<Q> Predict the output of the below code.
        interface Product{
                productId?:number;
                productName:string;
        }
        function
```

- a) The product name is undefined
- b) The product name is Mobile
- c) Compilation Error because incorrect value is assigned to default parameter
- d) None of these

<Q> Observe the code snippet and choose the right answer from the options provided

```
class University{
        public universityCode: number;
        protected courseCode: number;
        protected status: string;
        constructor(universityCode:number, courseCode:number){
                       this.universityCode = universityCode;
                       this.courseCode = courseCode
        }
        }
        class College extends University{
        private collegeld: number;
                constructor(universityCode:number, courseCode:number, collegeId:
        number) {
                       super(universityCode, courseCode);
                       this.collegeId = collegeId;
               }
                getCollegeDetails():void{
                        console.log(this.collegeId+" offers the course
        "+this.courseCode);
               }
var college: College = new College(2001, 403, 23);
console.log("University Code :"+college.universityCode)
college.getCollegeDetails();
```

```
a) Compilation Errorb) University Code :undefined23 offers the course 403
```

c) University Code :2001 23 offers the course 403

d) University Code :undefined23 offers the course undefined

<Q> What is the output if the below code is executed

```
class Lathe{
          static latheCount : number = 100;
          static updateLatheCount():number{
                return(Lathe.latheCount++);
}

getLatheName():string{
          return("Lathe Name : MYSLATHE"+Lathe.updateLatheCount());
}

var lathe:Lathe = new Lathe();
console.log(lathe.getLatheName());
```

a) Error: static method cannot be accessed by non static method

b) Error: static variable once initialied cannot be changed

c) LatheName : MYSLATHE101d) LatheName : MYSLATHE100

<Q> Consider the below code

```
class Book {
  title: string;
  price: number;
  author: string;
```

```
constructor(title, price, author, public publisher?) {
    this.title = title;
    this.price = price;
    this.author = author;
}

display() {
    console.log(this.title, this.price, this.author, this.publisher)
}

let book1 = new Book("Typescript Basics", 100, "ETA", " HSBC ");
book1.display();
let book2 = new Book("Angular Basics", 200, "ETA");
book2.display();
```

What will be the console output of the above code

- a) error: this.publisher is not a instance varianle in display method
- b) error: constructor cannot have a optional parameter
- c) error: public parameter cannot be optional
- d) Typescript Basics 100 ETA HSBC Angular Basics 200 ETA undefined

<Q> Predict the output of the below code.

```
1.
        interface Player
2.
3.
         playerId:string;
4.
         play();
5.
        }
        class Team
6.
7.
8.
                teamId:string;
9.
                playerId:string; //captain id
10.
                play()
11.
                {
```

```
12.
                        console.log('I am playing in a Team')
13.
               }
       }
14.
15.
16.
       class GameClass extends Team implements Player
17.
       {
18.
19.
       }
20.
21.
       new GameClass().play();
22.
```

- a) Compilation Error at line-16 'play() method of Player is not implemented in GameClass'
- b) Compilation Error at line-16 'Property playerId is missing in type GameClass'
- c) Compilation Error at line-21 'play() method can not be found in type GameClass'
- d) I am playing in a Team

<Q>

Predict the output of the following code snippet used to validate the employee ID and employee Mail Id of the employees of Infosoft.

```
interface Employee{
       employeeld: number;
       employeeName: string;
       employeeMailId: string;
}
function validateEmployee(employee:Employee):string{
let empldValidation: boolean = employee.employeeId > 100000 &&
employee.employeeld <= 999999;
let emailIdValidation: boolean = employee.employeeMailId.split('@')[1]=="infosoft.com";
        if (empIdValidation && emailIdValidation)
               var result: string = "Details of " + employee.employeeName + " validated
succesfully";
        else
               var result: string = "Validation of " + employee.employeeName + " unsuccesfull";
       return result;
}
let employee = {employeeId:343233, employeeName:"Arun Kumar", employeeMailId:
"arunk@infosoft.com", employeePhone: "9767543357"};
console.log(validateEmployee(employee));
```

- a) Details of Arun Kumar validated succesfully
- b) Error: variable result is declared inside if/else block cannot be returned outside the block
- c) Validation of Arun Kumar unsuccesfull

Multiple inheritence is not supported for interfaces

c)

d)

No Error, No output

d) Error: employee object has more parameters than the interface

```
<Q> Predict the ouput
       interface Customer{
               customerId: string;
               customerName: string;
       }
       interface RegularCustomer{
               retailCardNo: number;
               retailOutletId: string;
       }
       interface PrivilegeCustomer extends Customer, RegularCustomer{
               festiveBonus: number;
       }
       function fetchCreditLimit(privilegeCustomer:PrivilegeCustomer):number{
               if(privilegeCustomer.retailCardNo >= 1000 && privilegeCustomer.retailCardNo <= 5000)
       return privilegeCustomer.festiveBonus*3;
               else
       return privilegeCustomer.festiveBonus*2;
       }
       let customerOne : PrivilegeCustomer={
               customerId: "C13132",
               customerName: "Umesha",
               retailCardNo: 1230,
               retailOutletId: "R1001",
               festiveBonus: 2500
       }
       console.log("Festive Credit Limit :Rs."+fetchCreditLimit(customerOne)+"/-");
   a)
          Festive Credit Limit: Rs.7500/-
         Festive Credit Limit: Rs.5000/-
    b)
```