Sure, here are the multiple-choice questions (MCQs) with answers and options:

**Q1) Tell me the output.**

```plaintext
let myData: any;
console.log(typeof myData);
```

Options:

- A) any

- B) undefined

- C) never

- D) unknown

Answer: A) any

**Q2) Tell me the output.**

```plaintext
let myData: string = "Muhammad Fasih";
myData = 20;
console.log(myData);
```

Options:
- A) Muhammad Fasih

- B) Runtime Error

- C) Type Error

- D) undefined

Answer: B) Runtime Error

**Q3) Mention the output.**

```plaintext
const myData;
console.log(myData);
```

Options:

- A) Syntax Error

- B) Reference Error

- C) Type Error

- D) undefined

Answer: A) Syntax Error

**Q4) Tell me the output.**

```plaintext
let a: number = 5;
let b: number = 2;
const c: number = --a + b++ * a++;
console.log(a + b + c);
```

Options:

- A) 32

- B) 20

- C) 23

- D) 18

Answer: C) 23

**Q5) Tell me the output.**

```plaintext
const myNum: number = 10;
console.log(++myNum);
```

Options:

- A) 10

- B) 11

- C) 9

- D) Error

Answer: B) 11

**Q6) Tell me the output.**

```plaintext
const data1: number = 11;
const data2: boolean = data1 % 3 === 2;
const data3: boolean = data1 > 11 || data2;
console.log(data3);
```

Options:

- A) true

- B) false

- C) Syntax Error

- D) undefined

Answer: A) true

**Q7) Tell me the output.**

```plaintext
const myName: string = "Muhammad Fasih";
if (myName.length === 13) {
    console.log("Hello");
} else {
    console.log("World");
}
```

Options:

- A) Hello

- B) Muhammad Fasih

- C) World

- D) 13

Answer: C) World

**Q8) Tell me the output.**

```plaintext
const myAge: number = 20;
if (myAge > 18) {
    const message: string = "You can drive a car";
} else {
```

```
    const message: string = "You cannot drive a car";
}
console.log(message);
```

Options:

- A) You can drive a car

- B) undefined

- C) You cannot drive a car

- D) Error


Answer: B) undefined


**Q9) Tell me the output.**


```plaintext
const message: string = 0 ? "Hello" : "World";
const name: string = "" ? "Fasih" : "Salman";
console.log(name, message);
```

Options:

- A) Hello Fasih

- B) Salman Hello

- C) Salman World

- D) Fasih Hello


Answer: C) Salman World


**Q10) Mention the output.**

```plaintext
let a: number = 5;

const b: number = 6;

const c: number = !(a > b || b > a) ? a * b : a++ + b;

console.log(a + b + c);
```

Options:

- A) 41

- B) 40

- C) 23

- D) 22

Answer: D) 22

**Q11) Tell me the output.**

```plaintext
const directions: number = 3;
switch (directions) {
   case 1: console.log("Up");
   case 2: console.log("Down");
   case 3: console.log("Left");
   case 4: console.log("Right"); break;
   default: console.log("Select num between 2-4");
}
```

Options:

- A) Down

- B) Left, Right

- C) Up, Down, Left, Right

- D) Down, Left


Answer: B) Left, Right


**Q12) Mention the output.**


```plaintext
if (!(10 > 10 && 5 < 2) && (6 > 3 || 8 < 4)) {

    console.log("Hello");

} else {

    console.log("World");

}
```

Options:

- A) World

- B) Hello

- C) Both Hello and World

- D) No output


Answer: B) Hello


**Q13) Tell me the output.**


```plaintext
const a: number = 5;

const b: string = "10";

console.log(a + b + a);
```

Options:

- A) 5105

- B) 20

- C) 10510

- D) Error


Answer: A) 5105


**Q14) Tell me the output.**


```plaintext
const myName: string = "muhammad fasih";
myName.slice(0).toUpperCase();
console.log(myName);
```

Options:

- A) MUHAMMAD FASIH

- B) Muhammad Fasih

- C) muhammad fasih

- D) Cannot use slice method on strings


Answer: C) muhammad fasih


**Q15) Tell me the output.**


```plaintext
var a: number = 10
var a: number = 12
console.log(a);
```

```
```

Options:

- A) 10

- B) 12

- C) undefined

- D) Error


Answer: B) 12


**Q16) Mention the output.**


```plaintext
var myName: string = "Muhammad Fasih";
const myAge: number = 20;
if (myAge > 20) {
    console.log(myName.toUpperCase());
} else {
    console.log(myName.toLowerCase());
}
```

Options:

- A) MUHAMMAD FASIH

- B) muhammad fasih

- C) Muhammad Fasih

- D) Cannot find variable myName (Error)


Answer: C) Muhammad Fasih


**Q17) Mention the output.**

```plaintext
let myColor: "Blue" | "Green" | "Red";

myColor = "blue";

console.log(myColor);
```

Options:

- A) Runtime Error

- B) Type Error

- C) Green

- D) Blue


Answer: D) Blue


**Q18) Mention the output.**


```plaintext
let myData;

myData = "Hello World";

myData = 10;

myData = false;

console.log(myData);
```

Options:

- A) Hello World

- B) 10

- C) false

- D) Error

Answer: C) false


**Q19) Tell me the output.**


```plaintext
let myMessage: string = "";
if (myMessage) {
  myMessage += "Hello";
} else {
  myMessage += "World";
}
const abc: boolean = myMessage.includes("e");
myMessage = ""
console.log(abc || !myMessage);
```

Options:

- A) false

- B) true

- C) Hello

- D) World


Answer: B) true


**Q20) Mention the output.**


```plaintext
let myMessage: string = "" ? "hello" : "world";
const letter: string = myMessage.charAt(1).toUpperCase();
console.log(letter);
```

```
```

Options:

- A) H

- B) E

- C) W

- D) O

Answer: B) E

**Q21) Tell me the output.**

```plaintext
const myName: string = "Muhammad Fasih".charAt(4).toUpperCase();
console.log(myName);
```

Options:

- A) M

- B) cannot reassign const variable (Error)

- C) MuhaMmad Fasih

- D) MUHAMMAD FASIH

Answer: A) M

**Q22) Mention the output.**

```plaintext
const myMessage: string = "Hello World";
const num: number = 8;
console.log(myMessage.length + num)
```

```
```

Options:

- A) 19

- B) 18

- C) 20

- D) 17

Answer: B) 18

**Q23) Mention the result**

```plaintext
let myData: number | boolean = false;
myData = "10";
console.log(myData);
```

Options:

- A) false

- B) Type Error

- C) undefined

- D) Runtime Error

Answer: A) false

**Q24) What will be the output?**

```plaintext
let myName: string = "Muhammad Fasih";
myName = "Salman Shahid";
```

```
console.log("myName");
```

Options:

- A) Salman Shahid

- B) Muhammad Fasih

- C) myName

- D) undefined


Answer: C) myName


**Q25) Mention the output.**


```plaintext
console.log(myMessage);
const myMessage: string = "Hello World";
```

Options:

- A) Hello World

- B) undefined

- C) Reference Error

- D) Type Error


Answer: C) Reference Error


These questions cover various aspects of TypeScript


 syntax, type checking, scope, and logical operations. If you have any more questions or need further clarification, feel free to ask!