

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!

Topics:

Reference Error

Type Error

Syntax Error

Variables

Data types

Let, Const and Var

If else statement

Ternary operator

Switch case statement

Union types

Post increment

Pre increment

Logical operator

Arithmetic operators

Arithmetic assignment operators

Slice method

CharAt method

LowerCase and upperCase