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Program: S.E

Multiple Choice:

1

b. decision structure

2

d. boolean expression

3

a. NOT

4

b. logical operators

5

d. AND < OR < NOT

6

a. lexicographical comparison

7

a. flag

8

b. 'A' is less than 'B'

9

a. nested if statement

10

a. the closest previous if clause that doesn't already have its own else clause

11

a. &&

12

c. the equals method

13

a. ternary operator

14

b. default

15

a. Tab

16

True

17

True

18

True

19

True

20

False

```
1. // Warning! This code contains ERRORS!

if (x ==1) you have to add two = for the comiler to read it as equlity

System.out. println(x);

else if(x = 2); you cannot add semicolon after if/else if statment

{

x++;

System.out.println(x);

}
```

```
2. // Warning! This code contains an ERRORI

if (age > 18)

System.out.println("Person can vote");

else (age < 18)   else does not take a condition

System.out.println("Person can't vote");
```

```
3. // Warning! This code contains ERRORS!

if (num2 == 0){

System.out.println("Division by zero is not possible.");

System.out println("Please run the program again ");

System.out .println("and enter a number besides zero.");

}  if statement was not enclosed in brackets

else {

Quotient = num1 / num2;

System. out.print ("The quotient of " + Num1); It has to be num1
```

System.out.print (" divided by " + Num2 + " is "); it has to be num2

System.out.println(Quotient); } else was not enclosed in brackets

4. // Warning! This code contains ERRORS!

switch (score)

{

case (score > 90):

grade = 'A';

break;

case (score > 80):

grade = 'b';

break;

case (score > 70):

grade = 'C';

break;

case (score > 60): The case cannot contain a statement only values

grade = 'D';

break;

default:

grade = 'F

}

5. The following if statement should determine whether the value of variable x lies between 1 and 20. What is wrong with it? if ((x >= 1) &&(x < 20))

There cannot be a space between > = it should be like this >=

6. The following statement should determine whether count is within the range of 0 through 100. What is wrong with it? if (count >= 0 || count <= 100)

Instead of || operator we should use the && operator

7. the following statement should determine whether count is outside the range of 0 through 100. What is wrong with it? if (count < 0 && count >100)

Instead of && operator we should use the || operator