Trade: Android APP Development   **Name of Trainee:** _____

Total Marks: **Obtained Marks:**   **Dated:08/12/2022**

First Monthly Test

1. Dart is an Object-Oriented language.

A. Yes   **B. No**

C. Can be yes or no   D. Can not say

2. void main() {

    int x = 100;

    double y = 100.1;

    boolean b = (x = y);

    print(b);

}

A. true   B. false

C. Compilation fails

D. An exception is thrown at runtime

Q3. What are the values of a, b, and c after the following code statements?

int a = 5;

int b = 10;

int c = b;

a = a + 1;

b = b - 1;

c = c + a;

a:_____

b:_____

c:_____

Q4. What are the values of first and second at the end of the following

code?

int first = 8;

int second = 19;

first = first + second;

second = first - second;

first = first - second;

first _____

second _____

Q5. What are the values of i, j, and k after the following code statements?

int i = 2;

int j = 3;

int k = 4;

int x = i + j + k;

i = x - i - j;

j = x - j - k;

k = x - i - k;

i:_____

j:_____

k:_____

Q6. What is the output from the following code?

int max;

int min = 10;

max = 17 - 4 / 10;

max = max + 6;

min = max - min;

print(max * 2);

print(max + min);

print(max);

print(min);

Output:

_____

_____

_____

_____

Q7.What is the output of the following oddStuff method?

void oddStuff() {

 int number = 4;

 for (int count = 1; count <= number; count++) {

 print(number);

 number = number / 2;

 }

}

output:_____

Q8. Translate each of the following English statements into logical tests

that could be used in an if/else statement. Write the appropriate logical

test for each statement below. Assume that three int variables, x, y, and z,

have already been declared.

Example: z is not greater than y's square. z < y*y

a. z is odd._____

b. y is positive. _____

c. Either x or y is even, and the other is odd. (Hint: Don't use && or ||.)

_____

d. z is not zero. _____

e. y is greater in magnitude than z._____

f. x and z are opposite signs. _____

g. y is a nonnegative one-digit number. _____

h. z is nonnegative. _____

i. x is even _____

j. x is closer in value to y than z is. _____

Q9.Given the following variable declarations:

int x = 4;

int y = -3;

int z = 4;

What are the results of the following relational expressions?

a) x == 4 _____

b) x == y _____

e) x + y > 0 _____

f) x - z != 0 _____

g) y * y <= z _____

h) y / y == 1 _____

i) x * (y + 2) > y - (y + z) * 2

_____

10. Write a piece of code that reads a shorthand text description of color and

prints the longer equivalent.

Acceptable color names are B for Blue, G for Green, and R for Red. If the

user types something other than B, G, or R,

the program should print an error message. Make your program case insensitive so that the user can type an uppercase or lowercase letter.

Here are two example executions:

->What color do you want? R

You have chosen Red.

->What color do you want? Bork

Unknown color: Bork

Q11.Consider the following method.

```
void ifElseMystery1(int x, int y) {
 int z = 4;
 if (z <= x) { z = x + 1; } else { z = z + 9; }
 if (z <= y) { y++; }
 print(z + " " + y);
}
```

For each call below, indicate what output is produced.

ifElseMystery1(3, 20); _____

ifElseMystery1(4, 5); _____

ifElseMystery1(5, 5); _____

ifElseMystery1(6, 10); _____

12. The AND operator requires that both conditions be True for the compound expression to be True.

TRUE / FALSE

13. And Also is a logical operator that will "Short-circuit" if the first expression is False.

TRUE / FALSE

14. if statements containing additional ifs are saind to be nested if statements.

TRUE / FALSE

15. Each Else will be matched with the last unmatched IF, regardless of indentation.

TRUE / FALSE

16. Dart is originally developed by?

A. Microsoft

B. Google

C. IBM

D. Facebook

17. Class?

_____

_____

18. Object?

_____

_____

19. Constructor?

_____

_____

_____

20. What is the type of this map?

var seasons = { 'spring': 1, 2: 'summer' };

A. Map<String, String>

B. Map<Object, Object>

C. Map<dynamic, dynamic>

D. None of these.

21. An _____ is a real-time representation

of any entity.

A. class   B. method

C. object   D. None of the above

22. These statements using a map are correct:
var seasons = {'spring': 1, 'summer': 2 };
seasons['autumn'] = '3';
a. True
b. False

23. class Person {

String? name;

String? phone;

bool? isMarried;

int? age;

Person (){

}

Person.info(this.name,this.phone,this.isMarried,this.age);

void displayInfo() {

print("Person name: $name.");

print("Phone number: $phone.");

print("Married: $isMarried.");

print("Age: $age.");

}

}

Void main(){

Person p1 = Person();

Person p2 = Person.info('Name','PhoneNumber',false,90);

p1.displayInfo();

p2.displayInfo();

}

24. void main()

{

int num1 = 1200; int num2 = 1000;

int num3 = 150;

if (num1 > num2 && num1 > num3){

print ("Num 1 is greater: i.e $num1");

}

if(num2 > num1 && num2 > num3){

print("Num2 is greater: i.e $num2");

}

if(num3 > num1 && num3 > num2){

print("Num3 is greater: i.e $num3");

}

}

25. void main() {

var age = 20;

if(age >= 18){

print("You are voter.");

}

}