1. Write the value justification

i) 2\*(3+4) **– The expression in the bracket is computed first, so it becomes 2\*7 which is 14**

ii) 2\*3+4 **– The multiplication is computed first, so it becomes 6+4 is 10**

iii) 2+3\*4 **-The multiplication is computed first, so it becomes 2+12 which is 14**

2. What is the type of the following result:

i) 1+2.0+3

**Float type**

3. Which of the following is the valid variable name:

i) global

ii) 99flag

**iii) sum**

iv) an$wer

**sum is valid (option iii)**

4. Which are correct arithmetical operations?

i) a = 1\*2

**ii) 2 = 1+1**

iii) 5 + 6 = y

iv) Seven = 3 \* 4

**2 = 1+1 (option ii)**

5. Which operations result in 8?

**i) 65 // 8**

**ii) 17 % 9**

iii) 2 \* \* 4

**iv) 64 \* \* 0.5**

**Options I, II and iv**

6. The \_\_\_\_\_\_\_\_\_\_ data type allows only True/False values

a) bool b) boolean c) **Boolean** d) None

**Option C**

7. If the value of a = 20 and b = 20, then a+=b will assign \_\_\_\_\_\_\_\_ to a

**a) 40** b) 30 c) 20 d) 10

**Option a**

8.The \_\_\_\_\_\_\_\_\_\_\_\_ operator is used to find out if division of two number

yields any remainder

a) / b) + **c) %** d) //

**Option C**

9. Record what happens when following statements are executed:

a) print n=7 **-An error because ‘n=7’ is unknown**

b) print 5+7 **Prints number 12**

c) print 5.2, “this”, 4-2, “that”, 5/2.0 **Prints 5.2 this 4-2 that 2.5**

10.calculate:

a) 6+4\*10 **46**

b) (6+4)\*10 **100**

11. Type following mathematical expression and record your observations:

a) 2\*\*500 **Prints out a very large number with 151 digits**

b) 1/0 **Gives a ZeroDivisionError**

12. Write a code to show the use of all 6 math function.

**A = input(“Enter the first number”: “)**

**B = input(“What do you want to add this by: “)**

**C = input(“What do you want to subtract it by”)**

**D = input(“What do you want to multiply it by: “)**

**E = input(“What do you want to divide it by: “)**

**F = input(“What do you want to raise it by (the power): “)**

**G = input(“What divisor do you want it to check the remainder for: “)**

**Final = ((((A + B – C) \* D) / E) \*\* F) % G**

13. Write a code that prints your full name and your Birthday as separate strings.

**Name\_string = “My name is Angadveer Sandhu”**

**Birthday\_string = “20th August”**

**print(f”{Name\_string} and my birthday is on {Birthday\_string}”)**

14. How can text be read from the keyboard?

**??? Skip**

15. How are comments written in a program?

**By putting a # symbol in front (or using the ctrl + / to comment a single line). Or encase it in triple quotations (“””)**