



# CODING CONTEST

 **45 Min**

 **30M**

 **Best of luck**

\* Solve all questions   \* Make a PDF and submit it   \* Attend all questions mandatory

**Q.1 Match the column:** **5M**

A	B
Float	Coding With Sagar
String	20.3586
Python 3 Release date	3 December 2008
Full form of CWS	Coding With Sagar
Founder of python	"156"
	156
	Guido Van Rossum
	Dennis Ritchie

**Q.2** Ask a number from user. Print 'Yes' if the number is divisible by 2,3 but not 8. Otherwise print 'No' **3M**

**Q.3** Implement Rent Calculator in Python **3M**

**Q.4** What have you learned since the start of this class till now, write the names of the topics and how was your overall experience in the class. **2M**

**Q.5** Fill in the blanks: **2M**

- a-** An ordered set of instructions or commands to be executed by a computer is called a.....
- b-** Full form of IDLE is .....
- c-** .....is an identifier whose value can change.
- d-** .....are reserve words.

**Q.6 MCQ-** **6M**

**A-** Which of the following is true about the code below?

```
x = 3
if (x > 2):
    x = x * 2;
if (x > 4):
    x = 0; print(x)
```

- a.** x will always equal 0 after this code executes for any value of x
- b.** if x is greater than 2, the value in x will be doubled after this code executes
- c.** if x is greater than 2, x will equal 0 after this code executes

**B-** True is what type of variable?

- A. float
- B. string
- C. boolean
- D. integer

**C-** What is the output from the following code?

```
a = 3
b = (a != 3)
print(b)
```

- A. True
- B. False
- C. 0
- D. 3
- E. Syntax error

**Q.7** An extra day is added to the calendar almost every four years as February 29, and the day is called a leap day. A leap year contains a leap day. **4M**

Two conditions are used to identify leap years:

- If the year can be evenly divided by 4, it is then a leap year.
- But if year is evenly divided by 4 and also by 100, then it is NOT a leap year.
- But if year is evenly divided by 4 and also by 400, then it is a leap year.

This means the years 2000 and 2400 are leap years, while 1800, 1900, 2100, 2200, 2300 and 2500 are NOT leap years.

Ask a year input from user. And tell if the year entered by user is leap or not.

**Q.8** You are tasked with creating a program for a CWS contest results calculation system. The program should take in the following inputs from the user: Each question is of 5 marks. **5M**

- The number of questions in the contest
- Number of correct answers given by contestant

The program should then calculate the following for the contestant:

- The total number of marks earned
- The percentage of total marks earned
- The final grade (A, B, C, D or F) based on the percentage of total marks earned

Criteria of grade:

- 91 – 100 (A Grade)
- 81 – 90 (B Grade)
- 71 – 80 (C Grade)
- 61 – 70 (D Grade)
- 1 – 60 (F Grade)

The program should then display the following information for the contestant:

- Total marks earned
- Percentage of total marks earned
- Final grade