

## **INDIAN SCHOOL DARSAIT DEPARTMENT OF ICT**



**Subject:** Informatics Practices (065)

**Topic:** Data Handling

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Name of the Student :

Date:

Class & Div: XI C Roll Number : \_\_\_\_

- 1. What are data types? How are they important? Explain.
- 2. How many integer types are supported by Python? Name them.
- 3. What are immutable and mutable types? List immutable and mutable types of Python.
- 4. What is the difference between implicit type conversion (Coercion/ Type Promotion) and explicit type conversion (Type Casting)?
- 5. What are operators? Explain various operators in Python with suitable examples.
- 6. What is an expression? How many different types of expressions can you have in Python?
- 7. Explain the type casting issues?
- 8. What would be the output of the following code? Explain reasons.

a = 3 + 5/8b = int(3 + 5/8)c = 3 + float(5/8)d = 3 + float(5) / 8e = 3 + 5.0/8f = int(3 + 5/8.0)print(a, b, c, d, e, f)

- 9. How are augmented assignment operators useful?
- 10. Write the following expressions in Python?
  - a)  $\frac{1}{3}b^{2}h$ b)  $d = \sqrt{(x^2 - x^1)^2 + (y^2 - y^1)^2}$ c)  $(x-h)^2 + (y-k)^2 = r^2$ d)  $a^n \ge a^m = a^{n+m}$
- 11. What will be the output of the following Python code?

a = 12 b = 7.4c = 1a - = b print (a, b) a \* = 2 + cprint (a)  $b + = a^* c$ print (b)

- 12. What will be the output produced by following code? State reason.
  - a = 5 4 3b = 3\*\*2\*\*3print(a) print(b)