



INFORMATICS PRACTICES

Ch:5 Data Handling

Name: _____

Date: _____

Class: XI Sec: ____

1. What are the built-in-core data types of Python?
2. Differentiate between List and Tuple data type.
3. What are Dictionaries in Python?
4. What do you understand by mutable and immutable data types? List examples of each.
5. What is the difference between “/” (division operator) and “%” (modulus operator) ?
6. What is difference between “/” (division) and “//” (floor) operators?
7. How is “unary -” operator different from “-” operator in Python?
8. What is difference between “=” and “==” operators?
9. Write examples of Comparison operators, Arithmetic operators and Logical operators
10. What is the difference between implicit and explicit type conversion?
11. Which are correct type conversions?
 - i) `int (7.0+0.1)`
 - ii) `str (1.2 * 3.4)`
 - iii) `float (“77”+“.0”)`
 - iv) `str ( 9 / 0 )`
12. Which operations result in 8?
 - i) `65 // 8 8`
 - ii) `17 % 9 =8`
 - iii) `2 * * 4 =16`
 - iv) `64 * * 0.5= 8`
13. MCQ
 - i) The _____ data type allows only True/False values
 - a) bool b) boolean c) Boolean d) None
 - ii) If the value of a = 20 and b = 20, then `a+=b` will assign _____ to a
 - a) 40 b) 30 c) 20 d) 10
 - iii) The _____ operator is used to find out if division of two number yields any remainder
 - a) / b) + c) % d) //



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14. Find the matching pairs of expressions and values.

- | | |
|---------------------|----------|
| i) 1023 | boolean |
| ii) None | int |
| iii) [2, 4, 8, 16] | tuple |
| iv) True | list |
| v) 17.54 | str |
| vi) ("Roger", 1952) | NoneType |
| vii) "my fat cat" | float |

15. True or False

- i) Character Data type values should be delimited by using the single quote.
- ii) None is one of the data type in python
- iii) The += operator is used to add the right hand side value to the left hand side variable.
- iv) The data type double is not a valid python data type.
- v) Python does not have any keywords
- vi) The equal to condition is written by using the == operator

16. Write the value justification

- i) $2*(3+4)$
- ii) $2*3+4$
- iii) $2+3*4$

17. What is the type of the following result:

- i) $1+2.0+3$

18. Which of the following are not valid strings in python?

- a) "Hello" b) 'Hello' c) "Hello' d) 'Hello" e) {Hello}

19. ceil belongs to _____ module

20. fabs belongs to _____ module

21. The function that returns the largest integer not greater than number -

22. The function that returns the absolute value of a number -

23. The function that returns the smallest integer not less than number -

24. Evaluate the following expression with precedence of operator:

$$X = 2 * 3 / 5 + 10 // 3 - 1$$

25. Write the following expressions using operators used in python

i) $x = a^3 + b^3 + c^3$

(ii) $A = \pi r(r+h)^2$

(iii) $x = (-b \pm \sqrt{b^2 - 4ac}) / 2a$