



update

(ix) Write the difference between r+ and w+ modes of file opening.

- |  |  |
|--|--|
| a) no difference   | b) in r+ the pointer is initially placed at the beginning of the file and the pointer is at the end for w+ |
| c) in w+ the pointer is initially placed at the beginning of the file and the pointer is at the end for r+ | d) depends on the operating system   |

(x) Choose which of the following is not a type of inheritance?

- |                 |                |
|-----------------|----------------|
| a) Double-level | b) Multi-level |
| c) Single-level | d) Multiple    |

(xi) Write the advantages of using function.

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|-------------------------------|--------------------|
| a) Reduce duplication of code | b) Clarity of code |
| c) Reuse code                 | d) All             |

(xii) Calculate the output of the following code. Defsqr(a): return a\*a a=sqr (4)

- |      |         |
|------|---------|
| a) 4 | b) 16   |
| c) 8 | d) none |

(xiii) Determine which of the following is responsible for initializing the objects of its class?

- |                |                      |
|----------------|----------------------|
| a) Constructor | b) Destructor        |
| c) Iterator    | d) None of the above |

(xiv) Explain what will be the output of this code? any([5>8, 6>3, 3>1])

- |                 |                  |
|-----------------|------------------|
| a) not correct  | b) correct       |
| c) Invalid code | d) None of these |

(xv) Estimate the output of the following Python code.

```
class A:
    def __init__(self):
        self.__x = 1
class B(A):
    def display(self):
        print(self.__x)
def main():
    obj = B()
    obj.display()
main()
```

- |   |  |
|---|--|
| a) 1  | b) 0   |
| c) Error, invalid syntax for object declaration | d) Error, private class member can't be accessed in a subclass |

### Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe the significance of indentation in Python. (3)
3. Apply the len() function to determine the length of a tuple in Python. (3)
4. Write the definition of a dictionary in Python. (3)
5. Discuss whether is their any difference in the values returned by the functions dir (), vars() and keys(). If yes, write a program to obtain that difference, also mention the output. (3)
6. Justify the purpose of the append() method with list. (3)

OR

Justify the purpose of the count() method with tuples. (3)

**Group-C**  
(Long Answer Type Questions)

5 x 6=30

7. Describe the relationship between a class and object? Write a program which shows how to define a class in python. 3+2 (5)
8. Write a Python program to check whether a number is prime or not without using function. (5)
9. Find the resolution of an image file and then print the resolution value using a function in Python. (5)
10. Describe following string functions with syntax: title() , strip(), islower() and isupper(). (5)
11. Explain usage of continue, break, and pass keyword in python. (5)
12. Write a Python program to verify whether a number is automorphic or not. Write the output also. (5)

**OR**

Write a Python program on: "A school displays a notice on the school notice board regarding admission in class XI for choosing streams according to the marks obtained in English, Maths and Science in class X Council Examination." (5)

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