

A. Multiple Choice Questions

1. What is the relation between object and class?
 - a. A class is an instance of an object
 - b. An object is an instance of an object
 - c. An object is an attribute of a class
 - d. None of the above
2. Which method should be used to create default values in a class constructor?
 - a. `__doc__`
 - b. `__new__`
 - c. `__init__`
 - d. `__del__`
3. Instantiation is a process of:
 - a. Destroying an object
 - b. Initialising an object with a default value
 - c. Creating a new object with a default value
 - d. None of the above
4. What method is called when an object is created?
 - a. `Self`
 - b. `obj.self`
 - c. `init`
 - d. `__int__`
5. We have an object instance `obj` and want to call its method `calc_area()`. Which is the correct way of calling the function `calc_area()`?
 - a. `obj.calc_area(self)`
 - b. `calc_area.obj()`
 - c. `obj.calc_area()`
 - d. `calc_area.obj(self)`
6. Method overriding is _____.
 - a. A method with different name,
 - b. A method in a subclass which has the same name and same header as that of the super class
 - c. Both a and b
 - d. None of the above
7. What is used to create an object?
 - a. Constructor
 - b. Class
 - c. Method
 - d. None of the above
8. Which of the following statements are true?
 - a. Objects of the same type have the same id.
 - b. Each object has a unique id.
 - c. Both a and b
 - d. None of the above

9. _____ represents an entity in the real world which can be distinctly identified?

- a. Object
- b. Class
- c. Method
- d. None of the above

10. Analyze the code given below to find the reason behind the error in the program.

```
class A:
    def __init__(self):
        self.P = 10
        self.__Q = 20

    def getY(self):
        return self.__Q
```

```
a = A()
print(a.__Q)
```

- a. Q is private and cannot be access outside of the class.
- b. P is private and cannot be access outside of the class.
- c. Both a and b
- d. None of the above

11. Analyze the code given below to find the reason behind the error in the program.

```
class Base:
    def __init__(self, X):
        self.X = X
    def print(self):
        print(self.X)
```

```
Ob1 = Base()
Ob1.print()
```

- a. The class Base does not have a constructor.
- b. X is not defined in print.
- c. The constructor is invoked without arguments.
- d. None of the above

12. What will be the output of the following program?

```
class A:
    def __init__(self, s):
        self.s = s
    def display():
        print(s)
```

```
a = A("Welcome")
a.display()
```

- a. Welcome
- b. Error: The self is missing in method display()
- c. Cannot access method display()
- d. None of the above

13. Which statement is correct about self?
- a. Self refers to the previous object.
 - b. Self refers to the next object.
 - c. Self refers to the current object.
 - d. None of the above
14. Which method runs as soon as an object of a class is instantiated?
- a. `__init__`
 - b. `__del__`
 - c. `self`
 - d. None of the above
15. Which of the following is not a type of inheritance?
- a. Single
 - b. Multilevel
 - c. Distributive
 - d. Multiple
16. Look at the following definition of class and determine the type of inheritance the class is using.
- ```
class A:
 Pass
class B:
 Pass
class C(A , B):
 Pass
```
- a. Single
  - b. Multilevel
  - c. Multiple
  - d. None of the above
17. Which method is used to display the attributes of a class?
- a. `__init__`
  - b. `__dict__`
  - c. `__del__`
  - d. None of the above
18. The `__del__` is executed only if all\_\_\_\_\_.
- a. The references to a current instance object have been removed
  - b. The references to a previous object have been removed
  - c. The references to an instance object have been removed
  - d. None of the above
19. Suppose B is a subclass of A. Which syntax will be used to invoke the `__init__` method defined in class A from class B?
- a. `super()`
  - b. `super().__init__(self)`
  - c. `super().__init__()`
  - d. None of the above
20. If Ob1 is an instance of class A. Which statement can be used to check whether the object Ob1 is an instance of class A?
- a. `Ob1.isinstance(A)`
  - b. `A.isinstance(Ob1)`
  - c. `isinstance(Ob1, A)`
  - d. `isinstance(A,Ob1)`