* Required

ASSIGNMENT 11 OOPS

IN THIS ASSIGNMENT YOU WILL FIND QUESTIONS RELATED TO OOPS

1. Email address * 2. CERTIFICATION BATCH NO * Mark only one oval. OTHER 3. 1. _____ represents an entity in the real world with its identity and behaviour * Mark only one oval. A method An object A class An operator 4. 2. ____ is used to create an object. * Mark only one oval. class constructor User-defined functions In-built functions

5. 3. What will be the output of the following Python code? *

```
class test:
        def __init__(self, a="Hello World"):
             self.a=a
        def display(self):
            print(self.a)
  obj=test()
  obj.display()
  Mark only one oval.
         The program has an error because constructor can't have default arguments
         Nothing is displayed
         "Hello World" is displayed
         The program has an error display function doesn't have parameters
6. 4. What is setattr() used for? *
  Mark only one oval.
         To access the attribute of the object
         To set an attribute
         To check if an attribute exists or not
         To delete an attribute
7. 5. What will be the output of the following Python code?
  class change:
       def __init__(self, x, y, z):
           self.a = x + y + z
  x = change(1,2,3)
  y = getattr(x, 'a')
  setattr(x, 'a', y+1)
  print(x.a)
  Mark only one oval.
         7
         ERROR
         0
8. 6. Which of the following best describes inheritance?
  Mark only one oval.
         Ability of a class to derive members of another class as a part of its own definition
         Means of bundling instance variables and methods in order to restrict access to certain class
  members
         Focuses on variables and passing of variables to functions
         Allows for implementation of elegant software that is well designed and easily modified
```

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9. 7.Which of the following statements is wrong about inheritance?				
Mark only one oval.				
Protected members of a class can be inherited				
The inheriting class is called a subclass				
Private members of a class can be inherited and accessed				
Inheritance is one of the features of OOP				
10. 8.What is the output of the following piece of code? *				
class Test:				
<pre>definit(self):</pre>				
self.x = 0				
<pre>class Derived_Test(Test):</pre>				
<pre>definit(self):</pre>				
self.y = 1				
<pre>def main():</pre>				
<pre>b = Derived_Test()</pre>				
<pre>print(b.x,b.y)</pre>				
main()				
Mark only one oval.				
O 1				
00				
Error because class B inherits A but variable x isn't inherited				
Error because when object is created, argument must be passed like Derived_Test(1)				
11. 9. What is the output of the following piece of code?				
class A():				
<pre>def disp(self):</pre>				
<pre>print("A disp()")</pre>				
class B(A):				

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```
pass
obj = B()
obj.disp()
Mark only one oval.
```

Invalid syntax for inheritance

Error because when object is created, argument must be passed

Nothing is printed

A disp()

12.	10. All subclasses are a subtype in object-oriented programming. Is the statement true or false?			
	Mark only one oval.			
	True			
	False			
	ВОТН			
	NONE OF THE ABOVE			
13.	11. Which of the following best describes polymorphism? Mark only one oval.			
	Ability of a class to derive members of another class as a part of its own definition			
	Means of bundling instance variables and methods in order to restrict access to certain class members			
	Focuses on variables and passing of variables to functions			
	Allows for objects of different types and behaviour to be treated as the same general type			
14. 12.What is the biggest reason for the use of polymorphism? Mark only one oval.				
	It allows the programmer to think at a more abstract level			
	There is less program code to write			
	The program will have a more elegant design and will be easier to maintain and update			
	Program code takes up less space			
15.	13. What is the use of duck typing? Mark only one oval.			
	More restriction on the type values that can be passed to a given method			
	No restriction on the type values that can be passed to a given method			
	Less restriction on the type values that can be passed to a given method			
	Makes the program code smaller			

16. 14. What will be the output of the following Python code?

```
class A:
    def __str__(self):
        return '1'

class B(A):
    def __init__(self):
        super().__init__()

class C(B):
    def __init__(self):
        super().__init__()

def main():
    obj1 = B()
    obj2 = A()
    obj3 = C()
    print(obj1, obj2,obj3)

main()
```

Mark only one oval.

()	1	1	1
		•	•	•

123

() '1' '1' '1'

An exception is thrown

17. 15. What will be the output of the following Python code?

```
class Demo:
    def __init__(self):
        self.x = 1

    def change(self):
        self.x = 10

class Demo_derived(Demo):
    def change(self):
        self.x=self.x+1
        return self.x

def main():
    obj = Demo_derived()
    print(obj.change())
```

Mark only one oval.

\supset	11
	2

_____1

An exception is thrown

18.	. 16.Which of these is not a fundamental features of OOP? Mark only one oval.			
	Encapsulation			
	Inheritance			
	Instantiation			
	Polymorphism			
19.	. 17. Which of the following is the most suitable definition for encapsulation? Mark only one oval.			
	Ability of a class to derive members of another class as a part of its own definition			
	Means of bundling instance variables and methods in order to restrict access to certain class members			
	Focuses on variables and passing of variables to functions			
	Allows for implementation of elegant software that is well designed and easily modified			
20. 18.What will be the output of the following Python code?				
	class Demo:			
	<pre>definit(self):</pre>			
	self.a = 1			
	selfb = 1			
	<pre>def display(self):</pre>			
	return selfb			
	obj = Demo()			
	print(obj.a)			
	Mark only one oval.			
	The program has an error because there isn't any function to return self.a			
	The program has an error because b is private and display(self) is returning a private member			
	The program runs fine and 1 is printed			
	The program has an error as you can't name a class member usingb			

21. 19. What will be the output of the following Python code?

```
class Demo:
       def __init__(self):
            self.a = 1
            self._b = 1
       def display(self):
            return self.__b
   obj = Demo()
   print(obj.__b)
   Mark only one oval.
          The program has an error because there isn't any function to return self.a
          The program has an error because b is private and display(self) is returning a private member
          The program has an error because b is private and hence can't be printed
          The program runs fine and 1 is printed
22. 20. Methods of a class that provide access to private members of the class are called as
          and
   Mark only one oval.
          getters/setters
          __repr__/_str__
          c) user-defined functions/in-built functions
          __init__/__del__
```

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