

Multiple Choice Question

8 x 1 = 8

- 1) What will be the output of the following Python code?

```
import time  
time.time()
```

(a) The number of hours passed since 1st January, 1970
(b) The number of days passed since 1st January, 1970
(c) The number of seconds passed since 1st January, 1970
(d) The number of minutes passed since 1st January, 1970
- 2) What will be the output of the following Python code?

```
import time  
t=(2010, 9, 20, 8, 45, 12, 6, 0, 0)  
time.asctime(t)
```

(a) 'Sep 20 201008:45:12 Sun' (b) 'Sun Sep 20 08:45:12 2010' (c) '20 Sep 08:45:12Sun 2010'
(d) '2010 20 Sep 08:45:12Sun'
- 3) Which of the following functions results in an error

(a) turtle.shape("turtle") (b) turtle.shape(" square") (c) turtle.shape(" triangle")
(d) turtle.shaper("rectangle")
- 4) What will be the output of the following Python code?

```
import turtle  
t=turtle.Pen  
t.tilt(75)  
t.forward(100)
```

(a) A straight line of 100 units tilted at 75 degrees from the horizontal
(b) A straight line of 100 units tilted at 15 degrees from the horizontal
(c) A straight line of 100 units lying along the horizontal (d) No Error
- 5) What will be the output of the following Python code, if the code is run on Windows operating system?

```
import sys  
if sys.platform[:2] == 'wi':  
print("Hello")
```

(a) Error
(b) Hello (c) No output (d) Junk value
- 6) What will be the output of the following Python code?

```
import functools  
l=[1,2,3,4]  
print(functools.reduce(lambda x,y:x*y,1))
```

(a) Error (b) 10 (c) 24 (d) No Output
- 7) Which of the following Python codes will result in an error?

```
object = 'a'
```

(a) >>> pickle.dumps(object) (b) >>> pickle.dumps(object, 3) (c) >>> pickle.dumps(object, 3, True)
(d) >>> pickle.dumps('a', 2)

8) To sterilize an object hierarchy, the ____ function must be called. To desterilize a data stream, the ____ function must be called.

(a) dumps(), undumps() (b) loads(), unloads() (c) loads(), dumps() (d) dumps().loads()

2 Marks

14 x 2 = 28

9) Why do we need packages in Python?

10) Write steps to create a package in Python

11) What is the advantage of using packages in Python?

12) How can modules of a package imported without explicitly importing them with
import < package > .< module_name >
in function or module definition?

13) What is sys.path ? Why is it used

14) What is .pyc file?

15) What do we get when we use the dir () function?

16) Name the default Python attributes that are displayed with dir () function

17) What is _all_? What is its uses?

18) What is the difference between absolute import and relative import?

19) What happens when in a module we describe _ all_ list and omit some of the objects for e.g. a class called marks from it?

20) What happens when an import statements is encountered by Python?

21) How can a module in one subpackage reference objects in a sibling subpackage?

22) To use an object say obj1 module mode1 from package Package1 we can import from package1.module1
import obj1

or

import package1.module1 Which one is better and why?

3 Marks

4 x 3 = 12

23) How does Python know where to look for the modules and packages that are imported?

24) What is the Python libraries?

25) Explain any three popular Python libraries related to data science

26) What is PyQt5? List various modules in PyQt5.
