1) Which one from the following indicate scratch file extension ?

- sb
- sh
- sc
- scr

Yes, the answer is correct.
Score: 1
Accepted Answers:
sb

2) Which of the following constructs carries out a set of instructions as long as any key in the keyboard is pressed?

- None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:

3) Which command let the sprites walk ?

- Walk
- Go
- Move
- Run

Yes, the answer is correct.
Score: 1
Accepted Answers:
Move

4) Which from the following is not a command ?

- Forever
- Forever until
- Repeat
- Repeat until

Yes, the answer is correct.
Score: 1
Accepted Answers:
Forever until

5) Which command will shows animation for sprite ?

- next move
- next look
- next style
- next costume

Yes, the answer is correct.
Score: 1
Accepted Answers:
next costume

6) Can we give sprite specific location to start from ?

- Yes
- No

Yes, the answer is correct.
Score: 1
Accepted Answers:
Yes

7) Which of the following commands would make the sprite move backwards?

- Move 10 steps
- Move -10 steps
- Both a and b
- Neither a and b

Yes, the answer is correct.
Score: 1
Accepted Answers:
Move -10 steps

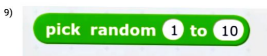8) Which of the following can be used to communicate across multiple sprites?

- broadcast messages
- send
- wait
- send to all

Yes, the answer is correct.
Score: 1
Accepted Answers:
broadcast messages

9)

Which of the following can never be an output of the above statement?

- 12
- 7
- 3
- 6

Yes, the answer is correct.
Score: 1
Accepted Answers:
12

10) Which of the following options was used to make the sprite disappear from the animation stage?

- disappear
- hide
- vanish
- show

Yes, the answer is correct.
Score: 1
Accepted Answers:
hide

1) What is the **value of x** after this sequence of instructions is carried out?

```
x=0
for i in range(10):
    x=x+1
```

- ● 10
- ○ 11
- ○ 12
- ○ 13

Yes, the answer is correct.
Score: 1

Accepted Answers:
10

2) What is the correct syntax to take input from user in Python?

- ● x=input()
- ○ x=input
- ○ x=input_user
- ○ input(x)

Yes, the answer is correct.
Score: 1

Accepted Answers:
x=input()

3) What is the **value of a** after this sequence of instructions is carried out?

```
a=0
while(a<10):
    a=a+1
```

- ○ 9
- ● 10
- ○ 11
- ○ 12

Yes, the answer is correct.
Score: 1

Accepted Answers:
10

4) What is the output of the following snippet if **5** is given as the input?

```
c=input("Enter a number")
print(c*3)
```

- ● 15
- ○ 555
- ○ 5
- ○ 3

No, the answer is incorrect.
Score: 0

Accepted Answers:
555

5) What is the value of k at the end of the following sequence of instructions?

```
k=20
x=9
x=x*3
k=x+5
```

- ○ 20
- ● 32
- ○ 0
- ○ 9

Yes, the answer is correct.
Score: 1

Accepted Answers:
32

6) What is the output of the following code snippet?

```
a=5
for i in range(10)
    a=a+1
```

- ○ 15
- ○ 5
- ○ 0
- ● Error

Yes, the answer is correct.
Score: 1

Accepted Answers:
Error

7) What happens when the following code is executed?

```
n=5
if(n>1):
print("Hello")
```

- ○ Hello gets printed
- ○ Nothing gets printed
- ● An error is thrown
- ○ None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
An error is thrown

8) What is the output of the following snippet?

```
s=0
for s in range(5):
    print(s)
```

- ● 0
  1
  2
  3
  4
- ○ 0
  1
  2
  3
- ○ 01234
- ○ 012345

Yes, the answer is correct.
Score: 1

Accepted Answers:
0
1
2
3
4

9) What is the value stored in the variable answer at the end of executing the following snippet?

```
answer=1
n=0
while(n<3):
    answer=answer*3
    n=n+1
```

- ○ 81
- ● 27
- ○ 91
- ○ 9

Yes, the answer is correct.
Score: 1

Accepted Answers:
27

10) What happens when the following code is executed?

```
n=5
if(n%5==0):
    print("Hello")
```

- ● Hello gets printed
- ○ Nothing gets printed
- ○ Hello gets printed twice
- ○ An error is thrown

Yes, the answer is correct.
Score: 1

Accepted Answers:
Hello gets printed

1) If the list t = [2, 5, 7, 9, 10, 11, 12], what will be the output of the statement t[2:4]?

- ○ [7,10]
- ○ [7,9,10]
- ● [7,9]
- ○ [5,7,9]

Yes, the answer is correct.
Score: 1

Accepted Answers:
[7,9]

2) If the word in your mind is SIT, in how many ways can you pose the jumbled question?

- ○ 5
- ● 6
- ○ 7
- ○ 3

No, the answer is incorrect.
Score: 0

Accepted Answers:
5

3) What does the count method return when applied on a list?

- ● It returns the number of occurrences of an element in a list.
- ○ It returns the number of elements present in the list.
- ○ It returns the index of last element of the list.
- ○ None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
It returns the number of occurrences of an element in a list.

4) In the game FizzBuzz, what should be the output for the number 105?

- ○ Fizz
- ○ Buzz
- ● FizzBuzz
- ○ Either A or B

Yes, the answer is correct.
Score: 1

Accepted Answers:
FizzBuzz

5) Which of the following libraries is used to create 2D graphs in Python?

- ● Matplotlib
- ○ Plot
- ○ Plotting
- ○ Plotgraph

Yes, the answer is correct.
Score: 1

Accepted Answers:
Matplotlib

6) What will be the output of the following Python program?
```
numbers=["one","two","three"]
for each in numbers:
    print(each)
```

- ○ one
  three
  two
- ○ one
  one
  two
- ● one
  two
  three

Yes, the answer is correct.
Score: 1

Accepted Answers:
one
two
three

7) What does the function random.randrange(50,100) return in Python?

- ○ It returns a random number from 51 to 99.
- ○ It returns a random number from 51 to 100.
- ● It returns a random number from 50 to 99.
- ○ It returns a random number from 50 to 100.

Yes, the answer is correct.
Score: 1

Accepted Answers:
It returns a random number from 50 to 99.

8) How is trimmed mean calculated?

- ○ Sort the values then remove top 10% or bottom 10% of the values
- ● Sort the values then remove top 10% and bottom 10% of the values
- ○ Sort the values then remove top 10% of the values
- ○ Sort the values then remove bottom 10% of the values

Yes, the answer is correct.
Score: 1

Accepted Answers:
Sort the values then remove top 10% and bottom 10% of the values

9) Which of the following **can be** an output of
random.randint(1,1000)
but can never be an output of
random.randrange(1,1000) ?

- ○ 1
- ○ 0
- ○ -1
- ● 1000

Yes, the answer is correct.
Score: 1

Accepted Answers:
1000

1) Guess the movie name.

A __ E __ __ E __ __

1 point

- AVIATION
- AVERSION
- AVIONICS
- ⦿ AVENGERS

Yes, the answer is correct.
Score: 1
Accepted Answers:
AVENGERS

2) Which of the following statements is true about Double game?

1 point

- There may be varying number of symbols on every card.
- ⦿ There is only one symbol common between two cards.
- There may be two or more symbols common between two cards.
- None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
There is only one symbol common between two cards.

3) In *"Guess the Movie Name"* game, we initially have all blanks (or *). Slowly as the person guesses a letter the question undergoes a change in state (the corresponding letter is opened up). If the movie name is INTERSTELLER, which of the following can **never** be a state of the question during the run of the program?

1 point

- ⦿ I N _ E R _ _ E L L _ R
- I N T _ R _ T _ L L _ R
- I N _ E _ _ _ E _ _ E _
- I N T E R _ T E _ _ E R

Yes, the answer is correct.
Score: 1
Accepted Answers:
I N _ E R _ _ E L L _ R

4) If the two strings CHKIEF and KYNOTQ are given as an input to the Dobble game program, what should be the output?

1 point

- Q
- E
- R
- ⦿ K

Yes, the answer is correct.
Score: 1
Accepted Answers:
K

5) Which of the following statements is true about Magic Square?

1 point

- Magic Square is a n*n matrix such that numbers in each row add up to the same value.
- Magic Square is a n*n matrix such that numbers in each column add up to the same value.
- Magic Square is a n*n matrix such that numbers along each diagnol add up to the same value.
- ⦿ All of the above.

Yes, the answer is correct.
Score: 1
Accepted Answers:
All of the above.

6) What is the minimum number of people required to guarantee a collision in their day of birth?

1 point

- ⦿ 8
- 7
- 6
- None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
8

7) What is the maximum number that can be filled in 5*5 Magic Square?

1 point

- 9
- ⦿ 25
- 16
- None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
25

8) What are the chances of meeting a person born on the same day as you are, assuming that you were born in a non-leap year?

1 point

- ⦿ one in 365
- one in 12
- one in 360
- one in 362

Yes, the answer is correct.
Score: 1
Accepted Answers:
one in 365

9) In *"Guess the Movie Name"* game, what will happen if the player asks to open up a letter that is **not present** in the actual movie name?

1 point

- The game comes to an end and the player is declared a loser.
- The closest letter that precedes this requested letter in the alphabetical order and present in the actual movie name is opened up.
- The closest letter that succeeds this requested letter in the alphabetical order and present in the actual movie name is opened up.
- ⦿ A message that the letter is not present is displayed then the game continues asking him to guess some other letter

Yes, the answer is correct.
Score: 1
Accepted Answers:
A message that the letter is not present is displayed then the game continues asking him to guess some other letter

11) In any 3 x 3 magic square solution, the sum across the rows or columns or diagonals is equal to:

1 point

- 12
- 16
- ⦿ 15
- 14

Yes, the answer is correct.
Score: 1
Accepted Answers:
15

1) In Rock, Paper and Scissors game, if one of the players shows Rock then

- He is **guaranteed** to win the game
- He is **guaranteed** to lose the game
- The game will **result** in a draw
- He is **guaranteed** to win if the **other player shows Scissors**

Yes, the answer is correct.
Score: 1
Accepted Answers:
He is guaranteed to win if the other player shows Scissors

2) Which file format is supported by Python Speech Recognition library?

- mp3
- wav
- Both A and B
- None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
wav

3) Which of the following statements is true about Monte Hall Game?

- In Monte Hall Game with 3 doors, two of the doors comprise of goat and one of the doors comprises of BMW
- In Monte Hall Game with 3 doors, the host opens a door having goat.
- In Monte Hall Game with 3 doors, the player is given a chance to change his choice after the host opens one of the doors comprising of goats.
- All of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
All of the above

4) Which of the following libraries is used in Python to convert Speech to Text?

- SpeechRecognition
- SpeechtoText
- TexttoSpeech
- None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
SpeechRecognition

5) What should be the output if the array [10,20,30,40,50] and the element to be searched 100 are passed as an argument to the Linear Search function?

- The output should be 50.
- The output should be 100.
- The element is not present in the list should be the output.
- The program should shut down abruptly.

Yes, the answer is correct.
Score: 1
Accepted Answers:
The element is not present in the list should be the output.

6) The number of swapping required to sort the array [8, 22, 7, 9, 31, 19, 5, 13] in ascending order using Bubble sort is

- 11
- 12
- 13
- 14

Yes, the answer is correct.
Score: 1
Accepted Answers:
14

7) Which of the following is a prerequisite to apply Binary Search on an array?

- The array should be sorted in ascending order.
- The array should be sorted in descending order.
- Either A or B
- None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
Either A or B

8) Consider the **secure** Rock Paper Scissors game.

Assume for both the players:
0->Rock
1->Paper
2 ->Scissors

Player 1's input : 1000010210
Player 2's input : 1012010211

Who won?

- Player 1
- Player 2
- Draw
- Data Insufficient

No, the answer is incorrect.
Score: 0
Accepted Answers:
Data Insufficient

9) Consider the **secure** Rock Paper Scissors game.

Assume for both the players:
0->Rock
1->Paper
2 ->Scissors

Player 1's input : 1000010210
Player 2's input : 1012010211
Secret bit of Player 1: 0
Secret bit of Player 2: 2

Who won?

- Player 1
- Player 2
- Draw
- Data Insufficient

Yes, the answer is correct.
Score: 1
Accepted Answers:

1) In the simple Monte Hall game, we had 3 doors and 1 door contained a prize. The player has to guess which door could possibly contain the prize. That door would be opened and if it contains the prize he wins it.

If more doors are added, the player has more choices to guess. What do you think will happen to the probability (i.e. chance) of winning if more doors are added?

- Increases
- Decreases
- None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
Decreases

1) Complete the following recursive function for calculating the factorial of a number.

```
def fact(num):
    if(num==0):
        return 1
    else:
        return _____
```

- ☐ fact(num-1)
- ☐ num*fact(num)
- ⦿ num*fact(num-1)
- ☐ (num-1)*fact(num)

Yes, the answer is correct.
Score: 1

Accepted Answers:
*num*fact(num-1)*

2) What is the output of the following recursive function?

```
def test(i,j):
    if(i==0):
        return j
    else:
        return test(i-1,i+j)
print(test(4,7))
```

- ☐ 13
- ☐ 7
- ⦿ 17
- ☐ 10

Yes, the answer is correct.
Score: 1

Accepted Answers:
17

3) State True or False.
Recursion and iteration are similar programming techniques.

- ☐ True
- ⦿ False

Yes, the answer is correct.
Score: 1

Accepted Answers:
False

4) Which of the following statements is true?

- ☐ Both Caesar cipher and Substitution cipher are the same
- ☐ Caesar and Substitution cipher are totally unrelated
- ⦿ Caesar cipher is a special case of Substitution cipher
- ☐ Substitution cipher is a special case of Caesar cipher

Yes, the answer is correct.
Score: 1

Accepted Answers:
Caesar cipher is a special case of Substitution cipher

5) If AMIT is encoded as ZLHS and SIMRAN is encoded as RHLQZM, then how would SOUJANYA be encoded as?

- ☐ RNTIZGFD
- ☐ RTNIZMXZ
- ☐ RTNIZMZX
- ⦿ RNTIZMXZ

Yes, the answer is correct.
Score: 1

Accepted Answers:
RNTIZMXZ

6) What is a Cipher?

- ⦿ An algorithm for performing encryption and decryption.
- ☐ An encrypted message
- ☐ Both A and B
- ☐ None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
An algorithm for performing encryption and decryption.

7) How many winning configurations are possible for a player in the Tic Tac Toe game?

- ☐ 2
- ☐ 4
- ☐ 6
- ⦿ 8

Yes, the answer is correct.
Score: 1

Accepted Answers:
8

8) What is the game strategy used in the Tic Tac Toe game?

- ☐ Divide and Conquer
- ⦿ Min-Max Strategy
- ☐ Greedy Strategy
- ☐ None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
Min-Max Strategy

9) Which of these statements is true?

- ☐ Recursion can solve a few problems which Iteration cannot.
- ☐ Iteration can solve a few problems which Recursion cannot.
- ⦿ Anything that Recursion can solve can be solved by Iteration.
- ☐ Recursion and Iteration are totally unrelated.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Anything that Recursion can solve can be solved by Iteration.

1) What would be the next cell in a 5*5 matrix that should be displayed after (1,5) for spiral traversing animation?

- ○ (2,4)
- ● (2,5)
- ○ (3,5)
- ○ (1,6)

2) State True or False.
matplotlib is used to plot latitude longitude position on maps.

- ○ True
- ● False

3) Which of the following Python modules is used for animation?

- ● turtle
- ○ Pandas
- ○ nltk
- ○ gmplot

4) What is the correct sequence of cells in a 5*5 matrix that should be displayed for spiral traversing animation?

- ○ (1,2), (2,2), (3,5), (5,5), (4,5)
- ● (1,4), (1,5), (2,5), (3,5), (4,5)
- ○ (1,5), (2,5), (3,5), (5,5), (4,5)
- ○ (2,3), (2,4), (2,5), (1,5), (3,5)

5) Which of the following statements is true about PIL?

- ○ PIL stands for Python Imaging Library.
- ○ PIL is used to load images with different formats.
- ○ PIL is used to manipulate images with different formats.
- ● All of the above.

6) Which of the following scenarios is considered as a win in snakes and ladders?

- ○ When one of the players climbs up a ladder, it is considered as a win.
- ○ When one of the players rolls a six, it is considered as a win.
- ● When one of the players reaches last cell, it is considered as a win.
- ○ None of the above.

7) What is the output shape of the program?

```
import turtle
t=turtle.Pen()
for i in range(1,5):
        t.forward(60)
        t.left(90)
```

- ○ Triangle
- ○ Trapezium
- ● Square
- ○ Circle

8) What is the minimum number of dice throws required to reach 100 in Snakes and Ladders game?

- ○ 100
- ○ less than 30
- ○ more than 30
- ● can't say

9) Which of the following methods is not defined in turtle module of Python?

- ○ forward()
- ○ right()
- ○ shape()
- ● moveto()

1) Which of the following statements is correct about NLTK?

- NLTK stands for Natural Language Tooling Kit.
- ⊛ NLTK is used for language processing.
- NLTK can be used to process images.
- All of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
NLTK is used for language processing.

2) Which of the following does CLAHE use to enhance the images?

- ⊛ Histogram Equalisation
- Median Filtering
- Mask Filtering
- None of the above.

Yes, the answer is correct.
Score: 1
Accepted Answers:
Histogram Equalisation

3) Predict the sentiment of the statement below.
SCCI labs of IIT Ropar deals with research areas related to Social Computing.

- Positive
- Negative
- ⊛ Neutral

Yes, the answer is correct.
Score: 1
Accepted Answers:
Neutral

4) State True or False.
Sum of ascii values of two anagrams is always same.

- ⊛ True
- False

Yes, the answer is correct.
Score: 1
Accepted Answers:
True

5) State True or False.
If the sum of ASCII values of two strings is same, then these two strings are anagrams.

- True
- ⊛ False

Yes, the answer is correct.
Score: 1
Accepted Answers:
False

6) Which of the following matrices has transpose same as the matrix itself?

- Identity Matrix
- Zero Matrix
- Either A or B
- ⊛ Both A and B

No, the answer is incorrect.
Score: 0
Accepted Answers:
Identity Matrix

7) Which of the following statements is true in case of tuple t=(10,20,30,90)?

- t[4]=40
- t[3]=40
- t[len(t)-1]=40
- ⊛ None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
None of the above

8) What is the output of the following statement if tuple t=(1,2,3,4)?
t[1:]

- ⊛ (2,3,4)
- (1,2,3,4)
- (3,4,1)
- (1,2,3)

Yes, the answer is correct.
Score: 1
Accepted Answers:
(2,3,4)

9) Consider the scenario below:
Ram wants to play a lottery game in which he has to choose one ticket out of 10 tickets. If the ticket chosen by the participant is 9, then he wins 500$. The price for playing the lottery game is 100$. Ram decides to play this game 10 times in order to guarantee his win. Would you advise him to play this game?

- Yes
- ⊛ No
- Can't say

Yes, the answer is correct.
Score: 1
Accepted Answers:
No

1) Find out the anagrams present in the following sentences.
One day, When I was going through my old stuff, I found my old study table. Though It was damn dusty, but still i could read the stupid stuff that i used to write on it as a kid.

- year and ear
- night and thing
- ⊛ dusty and study
- There is no anagram present in the given sentences.

Yes, the answer is correct.
Score: 1
Accepted Answers:
dusty and study

1) What should be the output of the following program?

1 point

```
import network as nx
G=nx.Graph()
for i in range(3):
        G.add_node(i)
G.add_edge(1,2)
G.add_edge(2,3)
G.add_edge(1,3)
nx.draw()
```

- A triangle graph
- A graph with 3 edges and an isolated node
- A graph with 3 edges and no isolated node
- ● Error

Yes, the answer is correct.
Score: 1
Accepted Answers:
Error

2) In network, in order to draw Erdos Renyi graph there is a function 'gnp_random_graph(n,p)'. What are n and p here?

1 point

- n is the number of edges and p is the probability of edge creation.
- ● n is the number of nodes and p is the probability of edge creation.
- n is the number of edges and p is the probability of node creation.
- n is the number of nodes and p is the probability of node creation.

Yes, the answer is correct.
Score: 1
Accepted Answers:
n is the number of nodes and p is the probability of edge creation.

3) What does the function G.nodes() in networkx return?

1 point

- It returns the number of nodes present in the graph G.
- ● It returns the list of nodes present in the graph G.
- It returns the tuple of nodes present in the graph G.
- It returns the number of edges present in the graph G.

Yes, the answer is correct.
Score: 1
Accepted Answers:
It returns the list of nodes present in the graph G.

4) What does the function scipy.misc.read() return?

0 points

- Image in the form of pixels
- A matrix of RGB values
- ● Image as Numpy array
- All of the above.

Yes, the answer is correct.
Score: 0
Accepted Answers:
Image as Numpy array

5) What is Stylometry?

1 point

- Stylometry is qualitative study of literary style.
- ● Stylometry is quantitative study of literary style.
- Both
- None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
Stylometry is quantitative study of literary style.

6) Which of the following statements is correct about tokenisation in Python?

1 point

- Tokenisation involves splitting words from the text.
- Tokenisation involves splitting sentences from the text.
- ● Both
- None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
Both

7) What is Project Gutenberg?

1 point

- It is a repository comprising of free images.
- It is a repository comprising of free music.
- ● It is a repository comprising of free ebooks
- None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
It is a repository comprising of free ebooks.

8) Which of the following is a Graph visualisation software?

1 point

- ● Gephi
- Visual Graph
- Graph Plot
- None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
Gephi

9) Is the Graph constructed by the following networkx program connected?

1 point

```
import networkx
G = networkx.Graph()
G.add_node(1)
G.add_node(2)
G.add_node(3)
G.add_node(4)
G.add_node(7)
G.add_node(9)
G.add_edge(1,2)
G.add_edge(3,1)
G.add_edge(2,4)
G.add_edge(4,1)
G.add_edge(9,1)
G.add_edge(1,7)
G.add_edge(2,9)
networkx.draw(G)
```

- ● Yes
- No

Yes, the answer is correct.
Score: 1
Accepted Answers:
Yes

1) What is the output when the following statement is executed?
```
print('new' 'line')
```

- new line
- ● newline
- new
  line
- new,line

2) What is the output of the statement *print(s.upper())* if s='SImRan' ?

- ● SIMRAN
- SIMran
- SiMrAn
- None of the above

3) If the string s="Python" then what is the output of the statement print(s[::-1])?

- "Python"
- "onthPy"
- "Pythno"
- ● "nohtyP"

4) What is the relationship between RANVEER and DEEPIKA according to the game FLAMES?

- ● Affection
- Marriage
- Friends
- Enemy

5) What is the count obtained after cancelling the common letters between RAVIKIRAN and ANUSHKA according to the game FLAMES?

- 6
- 7
- ● 8
- 9

6) What is the output of the following program?
```
import numpy as np
a = np.array([1,2,3,5,8])
b = np.array([0,3,4,2,1])
c = a + b
c = c*a
print (c[2])
```

- 20
- ● 21
- 26
- 27

7) What is the output of the statement print(a.size) if a is a numpy array defined as a = np.array([[1,2,3],[0,1,4]])?

- 4
- 5
- ● 6
- 7

8) State True or False.
numpy.asanyarray(input) converts input to an ndarray. Here, input can be scalars, lists, lists of tuples, tuples, tuples of tuples, tuples of lists.

- ● True
- False

9) What is the output of the following Python program?
```
import numpy as np
a = np.array([[0, 1, 0], [1, 0, 1]])
a += 3
b = a + 3
print (a[1,2] + b[1,2])
```

- ● 11
- 12
- 13
- 14

10) Which of the following attributes is used to obtain picture size using PIL in Python?

- shape
- ● size
- area
- volume

1) Which of the following is a recommended style of import?

- import selenium.webdriver
- import selenium, webdriver
- from selenium import *
- ● from selenium import webdriver

Yes, the answer is correct.
Score: 1

Accepted Answers:
from selenium import webdriver

2) How to create Firefox browser instance using Selenium Python API?

- from selenium import webdriver
  driver=Firefox
- from selenium import webdriver
  driver=Firefox()
- from selenium import webdriver
  driver=webdriver.Firefox
- ● from selenium import webdriver
  driver=webdriver.Firefox()

Yes, the answer is correct.
Score: 1

Accepted Answers:
from selenium import webdriver
driver=webdriver.Firefox()

3) Which of the following methods is used to locate an element in a webpage?

- find_element_by_id()
- find_element_by_link_text()
- find_element_by_class_name()
- ● All of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
All of the above

4) State True or False
One of the applications of Selenium can be testing of web applications.

- ● True
- False

Yes, the answer is correct.
Score: 1

Accepted Answers:
True

5) Which of the following is the correct syntax to change the timezone in Python?

- ● import pytz
  t=pytz.timezone('Singapore')
- import pytz
  t=pytz.zone('Singapore')
- import pytz
  t=timezone('Singapore')
- import pytz
  t=pytz.timezone()

Yes, the answer is correct.
Score: 1

Accepted Answers:
import pytz
t=pytz.timezone('Singapore')

6) What is the output of the following code snippet?
```
import datetime
print(datetime.date(2018,12,12))
```

- 12-12-2018
- ● 2018-12-12
- 12-2018-12
- 12

Yes, the answer is correct.
Score: 1

Accepted Answers:
2018-12-12

7) What is the output of the code shown below if the system date is 18th June, 2017 (Thursday)?
```
tday=datetime.date.today()
print(tday.weekday())
```

- 2
- 0
- 1
- ● 3

Yes, the answer is correct.
Score: 1

Accepted Answers:
3

8) Is 2100 a leap year?

- Yes
- ● No

Yes, the answer is correct.
Score: 1

Accepted Answers:
No

9) State True or False.
WebDriver is a web automation framework that allows you to execute your programs on different browsers.

- ● True
- False

Yes, the answer is correct.
Score: 1

Accepted Answers:
True

1) What is PageRank?

- ● PageRank is an algorithm used to rank nodes in a network.
- ○ PageRank is an algorithm used to rank nodes only based on their in-degree.
- ○ PageRank is an algorithm used to rank nodes only based on their out-degree.
- ○ Both B and C

2) State True or False:
3n+1 problem is also called Collatz conjecture.

- ● True
- ○ False

3) State True or False.
The sequence based on 3n+1 problem will always reach 1.

- ● True
- ○ False

4) What is the sequence obtained according 3n+1 algorithm for n=9?

- ○ 28,14,7,22,11,34,17,26,13,40,20,10,5,16,8,4,2,1
- ○ 28,14,7,22,11,34,52,26,13,40,20,10,5,16,8,4,2,1
- ○ 28,14,7,22,11,17,52,26,13,40,20,10,5,16,8,4,2,1
- ● 28,14,7,22,11,34,17,52,26,13,40,20,10,5,16,8,4,2,1

5) Consider the following statements:

a) Random Walk method requires lesser number of iterations to calculate accurate PageRank as compare to Points Distribution method.
b) Points Distribution method requires lesser number of iterations to calculate accurate PageRank as compare to Random Walk method

- ○ Statement a is correct
- ○ Statement b is correct
- ● None of the above

6) In Random Walk method of page rank algorithm, at each iteration

- ● The nodes are traversed by choosing one of the out links of a given node randomly.
- ○ The nodes are traversed by choosing one of the in links of a given node.
- ○ The nodes are traversed in a random fashion
- ○ The nodes are traveresed by choosing the first out link of a given node.

7) In the web graph, nodes are the web pages. What are the edges?

- ○ Network Connections
- ● Links to other web pages
- ○ URLs
- ○ None of the above

8) In the point distribution method of page rank algorithm, at each iteration, each node shares it pagerank value by -

- ○ Randomly choosing one of its outgoing link and sharing all its pagerank value to the node connected to that link.
- ● Dividing its pagerank value equally to all the outgoing links.
- ○ Generating a random pagerank value and then dividing it equally among the outgoing links equally.
- ○ None of the above.

9) In random walk method, what is the next step when a sink node is encountered in the underlying graph?

- ● A random node is chosen out of all the given nodes.
- ○ The node with maximum number of incoming links is chosen.
- ○ The node with maximum number of outgoing links is chosen.
- ○ None of the above