```
1. In python, which is the correct operator for power(x^y)?
a) X<sup>^</sup>y
b) X**y
c) X^^y
d) None of the mentioned
2. Which one of the following have the highest precedence in a
python expression?
a) Exponential
b) Addition
c) Multiplication
d) Parentheses
3. What is the result of the expression shown below if x=56.236?
print("%.2f"%x)
a) 56.00
b) 56.24
c) 56.23
d) 0056.236
4. What is the output of the code snippet shown below?
A = [[1,2,3],[4,5,6],[7,8,9]]
A[1]
a) [1, 2, 3]
b) [1]
c) [4, 5, 6]
d) [4]
5. What is the output of the following?
i = 1
while True:
   if i%7 == 0:
       break
    print(i)
    i += 1
```

- a) 1 2 3 4 5 6
- b) 1 2 3 4 5 6 7
- c) error
- d) none of the above

- 6. Suppose list1 is [2, 33, 222, 14, 25]. What is list1[:-1] ?
- a) [2, 33, 222, 14].
- b) Error
- c) 25
- d) [25, 14, 222, 33, 2].
- 7. What is the output of the code shown below?

```
def f(x):
    return bool(x%2)
print(f(20), f(21))
```

- a) False True
- b) False False
- c) True True
- d) True False
- 8. 3 coins are tossed simultaneously where the probability of getting head for each coin is 0.8. Find the probability of getting 2 heads and 1 tail.
- a) 0.128
- b) 0.384
- c) 0.512
- d) none of the above
- 9. Find the expected value of the following discrete distribution.

$$Y = [0, 1, 2, 3, 5]$$
  
 $P(Y) = [0.4, 0.15, 0.1, 0.15, 0.2]$ 

- a) 1.8
- b) 2.0
- c) 2.5
- d) none of the above