**Course: Python**

**1-MCQ**

Question 1:  Which is the correct operator for power(xy)?

A) X^y

B) X\*\*y

C)  X^^y

D None of the mentioned

Right Answer: B

Question 2: Which one of these is floor division?

A) /

B) //

C) %

D) None of the mentioned

Right Answer: B

Question 3: What is the answer to this expression, 22 % 3 is?  
A) 7

B) 1

C) 0

D) 5

Right Answer: B

Question 4: Operators with the same precedence are evaluated in which manner?  
A) Left to Right

B) Right to Left

C) Can’t say

D) None of the mentioned

Right Answer: A

Question 5: What is the output of this expression, 3\*1\*\*3?

A) 27

B) 9

C) 3

D) 1

Right Answer: C

Question 6: Which one of the following has the same precedence level?

A) Addition and Subtraction

B) Multiplication, Division and Addition

C) Multiplication, Division, Addition and Subtraction

D) Addition and Multiplication

Right Answer: A

Question 7: Which one of the following has the highest precedence in the expression?

A) Exponential

B) Addition

C) Multiplication

D) Parentheses

Right Answer: D

Question 8: Is Python case sensitive when dealing with identifiers?

A) Yes

B) No

C) Machine dependent

D) None of the mentioned

Right Answer: A

Question 9: Which of the following is an invalid variable?

A) my\_string\_1

B) 1st\_string

C)  foo

D)  \_

Right Answer: B

Question 10: Which of the following is not a keyword?

A) Eval

B) Assert

C) Nonlocal

D) Pass

Right Answer: A

**2-T/F**

Question 1:  Mathematical operations can be performed on a string.

False

Question 2:  The **print** function is used to receive data from keyboard in a  program.

False

Question 3:  The expression Int(x) implies that the variable x is converted to integer.

True

Question 4:  In Python, you can define a variable without specifying its data type?

False

Question 5:  The **input**function can be used to read a value from keyword. However, by using this statement you need to supply the value in single quotes.

True

Question 6:  In Python, by using the **raw\_input** function the value input from keyboard can be read without the use of single quotes.

True

Question 7:  In Python, to access the type of a variable, you can the **type** function.

True

Question 8:  A comment in Python language can start with # sign.

True

Question 9:  In **Python**, a**tuple** is a sequence of values that can't be changed after it is defined.

True

Question 10:  **Python** treats a string as special kind of **tuple**.

True

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**Course: Statistics**

**1-MCQ**

Question 1:  A and B are two events such that P(A) = 0.4 and P(A ∩ B) = 0.2 Then P(A ∩ B) is equal to \_\_\_\_\_\_\_\_\_\_\_

A) 0.4

B) 0.2

C) 0.6

D 0.8

Right Answer: A

Question 2: If A and B are two mutually exclusive events with P(~A) = 5⁄6 and P(b) = 1⁄3 then P(A /~B) is equal to \_\_\_\_\_\_\_\_\_\_\_

A) 1⁄4

B) 1⁄2

C)  0, since mutually exclusive

D) 5⁄18

Right Answer: A

Question 3: If A and B are two events such that P(a) = 0.2, P(b) = 0.6 and P(A /B) = 0.2 then the value of P(A /~B) is \_\_\_\_\_\_\_\_\_\_\_  
A) 0.2

B) 0.5

C) 0.8

D) 1⁄3

Right Answer: A

Question 4: Let A and B be two events such that the occurrence of A implies occurrence of B, But not vice-versa, then the correct relation between P(a) and P(b) is?  
A) P(A) < P(B)

B) P(B) ≥ P(A)

C) P(A) = P(B)

D) P(A) ≥ P(B)

Right Answer: B

Question 5:  If A ⊂ B and B ⊂ A then,

A) P(A) > P(B)

B) P(A) < P(B)

C) P(A) = P(B)

D) P(A) < P(B)

Right Answer: C

Question 6:  If A ⊂ B then?

A) P(a) > P(b)

B) P(A) ≥ P(B)

C) P(B) = P(A)

D) P(B) = P(B)

Right Answer: B

Question 7: What is the probability of an impossible event?

A) 0

B) 1

C) Not defined

D) Insufficient data

Right Answer: A

Question 8: Two unbiased coins are tossed. What is the probability of getting at most one head?

A) 1⁄2

B) 1⁄3

C) 1⁄6

D)  3⁄4

Right Answer: D

Question 9: The probability that at least one of the events M and N occur is 0.6. If M and N have probability of occurring together as 0.2, then P(M) + P(N) is?

A) 0.4

B) 1.2

C)  0.8

D)  Indeterminate

Right Answer: B

Question 10:  A survey determines that in a locality, 33% go to work by Bike, 42% go by Car, and 12% use both. The probability that a random person selected uses neither of them is?

A) 0.29

B) 0.37

C) 0.61

D) 0.75

Right Answer: B

**2-T/F**

Question 1:  If A and B are two mutually exclusive events with P(a) > 0 and P(b) > 0 then it implies they are also independent.

False

Question 2:  In a sample space S, if P(a) = 0, then A is independent of any other event.

True

Question 3:  Theorem of total probability is given by P(A) = P(E1) P(A|E1) + P(E2) P(A|E2) +…..(n terms).

True

Question 4:  Number of circular permutations of different things taken all at a time is n!.

False

Question 5:  Is the given statement true or false?  
nCr= nCn-r

True

Question 6:  Mode is the value of x where f(x) is a maximum if X is continuous.

True

Question 7:  E (XY)=E (X)E (Y) if x and y are independent.

True

Question 8:  Mean and variance of Poisson’s distribution is the same.

True

Question 9:  In a Binomial Distribution, the mean and variance are equal.

False

Question 10:  The probability of success and failures in hypergeometric distribution is not fixed.

True

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