**Python Worksheet**

1. C
2. a
3. c

4.c

5B

6. c

7.a

8. c

9. d

10. a

**Statistics Worksheet**

1.a

2.a

3.c

4.d

5. c

6. b

7. b

8. a

9. c

11**. Normal Distribution** – when the data is distributed normally irrespective of sample size, where mean, median and mode are close to each other. It is also called bell curve and Gaussian distribution.

12.

13. **A/b testing**- A/b testing is basically test difference between the A and B and in A/B testing there are amount of designs and it can be done by analytics. It is also known as Split and multivarint testing.

14. Linear Regression is basically of two types

**1. Simple Linear Regression**

**2. Multi Linear Regression**

1.**Simple Linear Regression**- In simple linear regression when we have only one feature is call it has simple linear regression.

Equation of Simple linear regression – y = mx +c

Where y= prediction

M= coefficient

X= input data

C=Intercept

2. **Multi Linear Regression**- In multi linear regression when we have more than two feature we call it as multi linear regression

y= C + mx1 + mx2 + mx3……..mxn

15. There are two branches of Statistics

**1. Descriptive**

**2. Inferential**

1. **Descriptive statistics**- If we can describe the data or when the data is very less we usually call it as descriptive statistics.

2 **Inferential statistics-** In inferential statistic whatever the random result we get from population of the sample we infer the result to the population.

**Machine Learning**

1.B

2.C

3.B

4.C

5.D

6.A

7.D

8.D

9.B

10.C

11.C

12. We can use all three Stochastic gradient, batch gradient or mini-batch gradient descent out of them stochastic and mini- batch will be better because these two doesn’t require whole dataset in order to take 1 step of gradient descent.

13.