



## Registration Details

Total points 30/30 ?

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SECTION \*

J

STREAM \*

ECE

Name \*

Sayantan Kar

Registration No / Roll No \*

43

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Group 4

NSEC - Test 1 - STATISTICS

30 of 30 points

Choose ONE option

The mean of 5 observations is 4.4 and the variance is 8.24. If three of the five  $\frac{2}{2}$  observations are 1, 2 and 6, find the other two. \*

- ☒ 9, 4
- ☐ 9, 5
- ☐ 7, 4
- ☐ 8, 5

The algebraic sum of the deviations of 50 observations measured from 90 is  $-\frac{2}{2}$  110. Find the AM of the observations. \*

- ☐ 90
- ☐ 110
- ☐ 88.7
- ☒ 87.8

The average weight of A, B, C is 45 Kg. If the average weight of A and B be 40  $\frac{1}{1}$  Kg and that of B and C be 43 Kg, then the weight of B is:

- ☐ 15 Kg
- ☐ 20 Kg

- ☐ 25 Kg
- ☒ 31 Kg

Find the standard deviation of 4, 8, 10, 12, 16

1/1

- ☐ 6
- ☒ 4
- ☐ 8
- ☐ None of the above

If the profits of a firm remain the same for the last 10 months, then the standard deviation of profits for these 10 months would be?

1/1

- ☐ Positive
- ☒ Zero
- ☐ Negative
- ☐ Can't be determined

Find the Mode of the following numbers: 7, 4, 3, 5, 6, 3, 3, 2, 4, 3, 4, 3, 3, 4, 4, 3, 1/1  
2, 2, 4, 3, 5, 4, 3, 4, 3, 1, 2, 3.

- ☐ 2
- ☒ 3
- ☐ 4
- ☐ None of the above

Find mean, if co-efficient of variation is 5% and variance is 4.

1/1

- ☐ 30
- ☒ 40
- ☐ 45
- ☐ 47

The mean of the value 1, 2, 3, ..., 120 with respective frequencies F, 2F, 3F, ..., 1/1  
120F is equal to: \*

- ☐  $61 \times 61$
- ☐  $241/6$
- ☐ 60
- ☒  $241/3$

Median is: \*

1/1

- ☐ 50th Percentile
- ☐ 2nd Quartile
- ☐ 5th Decile
- ☒ All of the above

The means of two samples of sizes 50 and 100 respectively are 54.1 and 50.3. 1/1  
Obtain the mean of the sample of size 150 obtained by combining the two samples.

- ☐ 50.47
- ☒ 51.57
- ☐ 52.37
- ☐ 54.48

The mean of 200 items is 48 and standard deviation is 3. What is the sum of the squares of these items? <sup>2/2</sup> \*

- ☒ 462600
- ☐ 462660
- ☐ 462060
- ☐ 426600

Standard deviation of 9, 9, 9, 9, 7, 7, 7, 7 is:

1/1

- ☐ 2
- ☐ 3
- ☐ - 1
- ☒ None of the above

Standard deviation is approximately:

1/1

- ☐ equal to Range
- ☐ equal to one-third of Range
- ☒ equal to half of Range
- ☐ None of the above

The average attendance of a school for the first 3 days of the week is 325 and for the first 4 days of the week it is 320. The students present on the fourth day were:

- ☒ 305
- ☐ 310
- ☐ 315
- ☐ 325

Standard deviation of  $(6 - 3x)$  is \_\_\_\_, if standard deviation of  $x$  is 2.

1/1

- ☐ 2
- ☒ 6
- ☐ 0
- ☐ None of the above

Calculate the variance of 1, 5, 6.

1/1

- ☐ 6.47
- ☒ 4.67
- ☐ 7.46
- ☐ None of the above

Find the median of 88, 72, 33, 29, 70, 86, 54, 91, 61, 57.

1/1

- ☐ 65
- ☐ 66
- ☒ 65.5
- ☐ None of the above

Standard deviation of  $(3x + 6)$  is \_\_\_\_, if standard deviation of  $x$  is 2.

1/1

- ☐ 2
- ☒ 6
- ☐ 0
- ☐ None of the above

The square of standard deviation is known as:

1/1

- ☐ Coefficient of Variation
- ☐ Variation
- ☒ Variance
- ☐ Coefficient of Standard Deviation

Which measure of dispersion is useful in open end classes?

1/1

- ☐ Range
- ☒ Quartile Deviation
- ☐ Mean Deviation
- ☐ Standard Deviation

The arithmetic mean is 25 and standard deviation is 6.25. Find the coefficient of variation. \*

2/2

- ☐ 20
- ☒ 25
- ☐ 18.33
- ☐ None of the above

In a moderately symmetric distribution the mode and mean are 12.30 and 18.48 respectively. Find the median. \*

1/1

- ☐ 16
- ☒ 16.42
- ☐ 16.24
- ☐ None of the above

Standard deviation of two numbers A and B is:

1/1

- ☐  $(A - B)$
- ☐  $|A - B|$
- ☐  $(A - B)/2$
- ☒  $|A - B|/2$

Find the Harmonic Mean of the following numbers: 1.  $\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{4}$ .

1/1

- ☒ 0.4
- ☐ 0.5
- ☐ 0.25
- ☐ None of the above

The means of two samples of sizes 50 and 100 respectively are 54.4 and 50.3  $\frac{2}{2}$  and the standard deviation is 8 and 7. Obtain the standard deviation of the sample size 150 obtained by combining the two samples. \*

- ☐ 5.79
- ☒ 7.59
- ☐ 6.47
- ☐ 6.59

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