

B.Sc. (NEP) Sem.-3 Examination

SEC-236

Statistics (1) Statistical Analysis through Excel

November-2025

Time : 1-00 Hour]

[Max. Marks : 25

Instructions:

- All questions are compulsory and carry equal marks.
- Figures to the right indicate full marks of the questions/sub-questions

Q. 1 a State different measures of Central Tendency. 05

State an excel formula for Average.

Find mean for the following observations

5, 8, 10, 11, 16, 10, 25, 15, 30, 20.

b What is correlation? 05

State excel formula for correlation.

Obtain the correlation coefficient using the data given below:

$$n = 3, \Sigma X = 30, \Sigma Y = 57, \Sigma X^2 = 326, \Sigma Y^2 = 838, \Sigma XY = 584$$

OR

a Define median and state its merits and demerits. 05

b The following data show shoes available in a store with different sizes 05

Size	3	4	5	6	7	8	9
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No. of Shoes	2	5	6	16	20	12	5
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Find mode and also state EXCEL formula of mode with description.

Q. 2 a State characteristics of good averages. 05

b For the following data show that median is 9. 05

x	5	8	9	10	13
f	2	5	11	9	3

OR

a Write a note on graphical presentation. 05

b What is skewness? 05

The arithmetic mean, median and mode are 8.5 each respectively, then there is _____ skewness.

(a) positive, (b) negative, (c) both (a) and (b), (d) No.

Q. 5 Answer ANY FIVE (05) from following 05

1 State one advantage of mean.

2 The arithmetic mean, median and mode are 8.5 each respectively, then there is _____ skewness.

(a) positive, (b) negative, (c) both (a) and (b), (d) No.

3 It is necessary to arrange observations in ascending or descending order to obtain median. Do you Agree?

4 The range of correlation coefficient is _____.

(a) $0 < r < 1$, (b) $-1 < r < 0$, (c) $-1 \leq r \leq 1$ (d) $0 \leq r \leq 2$

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- 5 =MEDIAN(G6:G10) gives a median of values in the cells G6 to G10. True or False.
- 6 Histogram is drawn using a continuous data. Do you agree?
- 7 =SKEW(G6:G10) gives a skewness of values in the cells G6 to G10. Do you agree?
- 8 The average is somewhere within the range of data set. True or false.



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Candidate's Seat No : _____

B.Sc. (NEP) Sem.-3 Examination

SEC-236

Statistics (2) Basic of JAMOVİ

November-2025

Time : 1-00 Hour]

[Max. Marks : 25

Instructions:

1. All questions are compulsory and carry equal marks.
2. Figures to the right indicate full marks of the questions/sub-questions

- Q. 1 a Write a Short note on Preparing data file in JAMOVİ. 05
b Explain process of importing data from Excel file to JAMOVİ. 05

OR

- a Discuss on various types of data in context of JAMOVİ. 05
b Write a detailed note on drawing scatter diagram using JAMOVİ. 05

- Q. 2 a A company has given data of monthly income, expenses, experience, type of job assigned for 150 workers working in the company. Explain step wise process to be followed to convert monthly income of the workers in to their yearly income in JAMOVİ. 05
b Blood pressure of 200 patients is measured in a hospital. Discuss the step wise methodology to perform normality test in JAMOVİ. 05

OR

- a Explain stepwise procedure to draw bar diagram in JAMOVİ. 05
b Write methodology to prepare contingency tables for categorical data in JAMOVİ. 05

Q. 3 Answer ANY FIVE (05) from following 05

- 1 Which Jamovi plot is used for visualizing skewness of data distribution?
a. Line Plot b. Scatter Plot
c. Density Plot d. Stacked Bar
- 2 Which Jamovi feature allows you to filter rows with multiple conditions?
a. Transform b. Filter
c. Syntax d. Compute
- 3 In Jamovi, what type of scale is 'Height in cm'?
a. Interval b. Ordinal

