B A, BSC, BCOM DEGREE END SEMESTER EXAMINATION – MARCH 2026

UGP (HONS.) SEMESTER – 4: SKILL ENHANCEMENT COURSE

COURSE: 24USTASEC201: DATA ANALYSIS USING SPSS

(For Regular 2024 Admission)

Time: 1.5 Hours   Max. Marks: 50

(Use of non-programable calculator and statistical tables are permitted)

PART A

(Maximum marks from this part is 10. Each question carries 2 marks)

1. Define Standard Deviation.   (CO 2, U)
2. Give the test statistic for chi square test for independence.   (CO 4, U)
3. Give the interpretation when the correlation coefficient r=0.   (CO 3, An)
4. Quote 2 measures of central tendency.   (CO 2, U)
5. Define Coefficient of Quartile deviation.   (CO 2, U)
6. Define skewness   (CO 2, U)
7. Explain variable view in SPSS   (CO 1,U)
8. Give the expansion of SPSS.   (CO 1, U)

PART B

(Maximum marks from this part is 20. Each question carries 5 marks)

9. Explain the procedure for importing data from Excel into SPSS. Mention precautions to be taken.   (CO 1, A)
10. Explain how to merge two separate data files in SPSS.   (CO 1, A)
11. The club collected data on the number of hours 11 students studied in a week before their midterm exams: 45,50,48,52,47,46,51,53,49,50,46 . Evaluate the mean and standard deviation of the data.   (CO 2, A)
12. Explain in detail positive and negative correlation with the help of an example.   (CO 2, A)
13. In a music competition two judges awarded the following ranks to 10 competitors. On the basis of the data do you think that the judges appear to agree in their standard.

Judge I	5	4	2	6	7	10	9	1	8	3
Judge II	4	1	5	7	8	9	10	6	3	2

(CO 3, A)

14. Draw a less than cumulative frequency polygon for the following data.

Class	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Frequency	4	6	15	23	20	18	9	5

(CO 2, A)

PART C

(Maximum marks from this part is 20. Each question carries 10 marks)

15. Given the regression equation 2x+3y=10 and 3x+4y=15 , which one is the regression equation of x on y (CO 3,A)

16. a) Explain the measures of central tendency b) Write brief notes on Arithmetic mean, Median, Mode with examples. (CO 2, U)

17. Describe the various data manipulation techniques in SPSS with suitable examples.
    a) Sorting cases b) Selecting cases c) Splitting files d) Merging data files
    e) Recoding variables (CO 2, U)

18. There were two types of drugs (1 and 2) that were tried on some patients for reducing weight . There were 8 adults who were subjected to drug 1 and seven adults who were administered drug 2 . the decrease in weight is given below. Do the drug differ significantly in their effect on decreasing weight. You may use 5% level of significance. Assume that the variances of 2 populations are not same. (CO 3, A)

Drug 1	10	8	12	14	7	15	13	11
Drug 2	12	10	7	6	12	11	12	

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