PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2022
(Sixth Semester)

Branch – COMMERCE (BUSINESS ANALYTICS)

DATA ANALYTICS USING SPSS

Time: Three Hours   Maximum: 75 Marks

SECTION-A (10 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (10 x 1 = 10)

1. What is the advantage of using SPSS over calculating statistics by hand?
   (a) This is how most quantitative data analysis is done in "real research" nowadays
   (b) It reduces the chance of making errors in your calculations
   (c) It equips you with a useful transferable skill
   (d) All of the above

2. In SPSS, what is the "Data Viewer"?
   (a) A table summarizing the frequencies of data for one variable
   (b) A spreadsheet into which data can be entered
   (c) A dialog box that allows you to choose a statistical test
   (d) screen in which variables can be defined and labeled

3. Which of the following is true about the names of variables in SPSS?
   (a) They cannot contain spaces.
   (b) They cannot begin with a numeral.
   (c) They cannot contain any special characters.
   (d) All of these choices are true.

4. Which of the following is true about the names of variables in SPSS?
   (a) They cannot contain spaces.
   (b) They cannot begin with a numeral.
   (c) They cannot contain any special characters.
   (d) All of these choices are true.

5. Which of the following statements about ordinal data is true?
   (a) There are equal intervals between points on an ordinal scale.
   (b) Ordinal is a synonym for 'continuous'.
   (c) There is always an absolute zero on an ordinal scale.
   (d) Ordinal data have magnitude.

6. How would you use the drop-down menus in SPSS to generate a frequency table?
   (a) Open the Output Viewer and click: Save As; Pie Chart
   (b) Click on: Analyze; Descriptive Statistics; Frequencies
   (c) Click on: Graphs; Frequencies; Pearson
   (d) Open the Variable Viewer and recode the value labels

7. How would you print a bar chart that you have just produced in SPSS?
   (a) In Output Viewer, click File, Print, select the bar chart and click OK
   (b) In Variable Viewer, open bar chart, click File, Print, OK
   (c) In Chart Editor, click Descriptive Statistics, Print, OK
   (d) In Data Editor, open Graphs dialog box, click Save, OK

8. 100 students enrolled in three courses completed a five item 'course satisfaction' questionnaire. Disregarding the identification variable, how many columns wide will the data file be when looking at it in the Data View of the SPSS Data Editor?
   (a) 6   (b) 15   (c) 100   (d) 5

9. A researcher measured the same group of people's physiological reactions while watching horror films and compared them to when watching erotic films. The resulting data were skewed. What test should be used to analyse the data?
   (a) Independent t-test
   (b) Wilcoxon signed-rank test
   (c) Dependent (related) t-test
   (d) Mann–Whitney test

10. The t-test tests for:
    (a) Differences between means
    (b) Whether a correlation is significant
    (c) Whether a regression coefficient is equal to zero
    (d) All of these

SECTION - B (35 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 7 = 35)

11. (a) Describe the variable view data sheet in SPSS.
    (OR)
    (b) Explain briefly system-missing value in SPSS.

12. (a) Write down the syntax for variable in SPSS.
    (OR)
    (b) Describe file processing in SPSS.

13. (a) Write a short note on date arithmetic functions in SPSS.
    (OR)
    (b) Describe conversion functions in SPSS.

14. (a) How to draw a diagram and a graph in SPSS.
    (OR)
    (b) How to perform reliability analysis in SPSS.

15. (a) Describe bivariate correlation analysis with SPSS.
    (OR)
    (b) State the procedures to perform simple regression analysis in SPSS.

SECTION - C (30 Marks)
Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16. How to create importing and exporting files in SPSS and state their uses? Explain.
17. Elucidate the process of transforming in recode into same variable in SPSS window.
18. Explain the arithmetic functions *Abs, cos, Exp, lg10, ln, sin* in SPSS.
19. How to open one sample t test and paired t test in SPSS? Explain.
20. How to construct one way ANOVA using SPSS? Explain

Z-Z-Z   END