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1 SEM MCOM (CBCS) USS 500 (N)

2019

(December)

COMMERCE

Paper: 10500

(Use of Statistical Software)

Full Marks: 40

Time: Two hours

The figures in the margin indicate full marks for the questions.

- 1. Choose the correct answer: 1×5=5
 - (i) What are the two main Windows in SPSS?
 - (a) Data editor and output viewer
 - (b) Data view and variable view
 - (c) Data view and output viewer
 - (d) Variable view and output viewer.

(ii) and columns represent characteristic In this tab, rows represent variabl (v)

9 Data view

Variable view

(d) Output viewer

Data editor.

(iii)

In this tab, rows represent individual cases and columns represent variables

(a) Data view

0 (b) Data editor

(d) Output viewer Variable view.

(iv) In SPSS, what is the "Data Viewer"? frequencies of data for one variable A table summarizing the

6 A spreadsheet into which data can be entered

0

(d) A dialog box that allows you to choose a statistical test

1 SEM MCOM (CBCS) USS 500 (N)/D A screen in which variables can be defined and labelled.

> Which menu would you select to run statistical procedures?

a Graph menu

<u>(d</u> Data menu

0 Analyze menu

(d) Transform menu.

Primary vs. Secondary Data

Write short notes on: (any three) 5×3=15

Test of significance

(iv) Parametric vs. Non-Parametric Tests Chi-Square Test

Descriptive statistics in SPSS.

3 How do you specify a variable as

a nominal, ordinal or scale in SPSS? Explain with example.

w

Prepare a questionnaire on 'Consumers'

(d Behaviour on Consumption of Fast Food'. Explain the type of measurement applicable to each question.

11SS 500 (N)/D

4. (a) How do you enter multiple choice questions an responses in SPSS?

Explain with examples.

OR

(b) How do you perform regression analysis in SPSS? Explain its interpretion.

Instruction to the candidate: Attempt any 3

Questions:

- 1. Prepare a questionnaire of 10 questions including all the scales of measurement under SPSS. Give a diagrammatic representation of the same in the Variable view under SPSS. 5+5=10
- 2. Prepare a questionnaire of 5 questions in Ordinal and Ratio scales of measurement. Hypothetically show any 3 tests of normality that can be performed to the above data along with your interpretation on same.

 2.5+7.5=10
- 3. The following tables depict the outputs of multiple regression analysis under SPSS. Identify the problem. Explain why you proceed for multiple regression on the said data. Interpret each of the output and frame the relevant regression equation. 2+3+3+2=10

		Model St	ımmary	
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.909ª	.826	.777	.5937

a. Predictors: (Constant), Gender of respondent, Age in your LBD,

Frequency of watching news, Frequency of reading newspaper,

Years of formal education

A	N	O	V	Δ	8
m	, ,	v		_	1

Model		Sum of Squares	df	Mean Square	F	Sig.
mode.	Regression	23.483	4	5.871	16.654	.000
1	Residual	4.935	14	.353		
	Total	28.418	18			0.11.2.4.4.11W47-2-7-1

- a. Dependent Variable: General Awareness score of the respondent
- b. Predictors: (Constant), Gender of respondent, Age in your LBD, Frequency of watching news,

Frequency of reading newspaper, Years of formal education

Coefficients^a

	Cocii	ficients ^a		70	
	Unstandardized	d Coefficients	Standardized Coefficients	t	Sig.
	В	Std. Error	Beta		
(Constant)	8.256	.831		9.934	.0
	033	.011	-,399	-2.875	.01
Frequency of watching	015	.029	060	511	.61
news		475	632	4.394	.00
Frequency of reading	.767	.175	.052		
newspaper	114	.295	046	385	.006
	news Frequency of reading	(Constant) 8.256 Age in your LBD033 Frequency of watching015 news Frequency of reading .767 newspaper	(Constant) 8.256 .831 Age in your LBD033 .011 Frequency of watching015 .029 news Frequency of reading .767 .175 newspaper	B Std. Error Beta	B Std. Error Beta 9.934

- a. Dependent Variable: General Awareness score of the respondent
- 4. "SPSS is a boon to research in Social Sciences and Health Sciences but consequences of violating assumptions would lead to erroneous and misleading solutions" Explain. 10
- 5. Write short notes: (Any 2)
- (a) Data manipulation in SPSS
- (b) Tests of Significance in SPSS
- (c) Descriptive Statistics under SPSS

5+5=10

1 SEM PG (CBCS) USS 500 2021

(held in February/March, 2022)

COMMERCE

Paper: AEC 10500

(Use of Statistical Software)

Full Marks: 40

Time: Two hours

The figures in the margin indicate full marks for the questions.

A. Multiple choice questions: (any five)

 $2 \times 5 = 10$

- 1. What is the full form of SPSS?
 - (a) Statistical Process for Social Science
 - (b) Statistical Package for Social Science
 - (c) Statistical Package for Social Sciences
 - (d) Statistical Package for Social and

- 2. What is the advantage calculating statistics by hand?
 - (a) This is how most qualitative data analysis is done in 'real research' now-a-days
 - (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
- 3. In SPS\$ what is '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) A screen in which variable can be defined and labelled

- In SPSS, what is the 'variable viewer'? 4.
 - A table summarizing the frequencies of (a) data for one variable
 - A spreadsheet into which data can be (b) entered
 - A dialog box that allows you to choose (c) a statistical test
 - A screen in which variable can be (d) defined and labelled
- How is variable name different from variable 5. label?
 - It is shorter and less detailed (a)
 - It is longer and more detailed (b)
 - It is abstract and unspecific (c)
 - It refers to code rather than variable (d)
- What does the operation 'recode into 6. difference variable' do to the data?
 - Replaces missing data with some (a) random score

- (b) Reverses the position of independent and dependent variable on a graph
- (c) Redistributes a range of values into a new set of categories and create a new variable
- (d) Represents the data in the form of a pie chart
- B. Write short notes on : (any two) $5\times2=10$
 - 1. Chi square tests in SPSS
 - 2. Regression analysis in SPSS
 - 3. Data manipulation in SPSS
- C. Explain how to enter data in SPSS software with proper example.

Or

Explain the process of data entry into SPSS from questionnaire.

D. Explain the parametric and non-parametric tests in SPSS.

Or

Describe the need of correlation analysis along with the process of computing correlation in SPSS.

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1 SEM MCOM (CBCS) USS 500

(OW) yn 2022

(December)

COMMERCE

Paper: 10500 (AEC)

(Use of Statistical Software)

Full Marks: 40

Time: 2 hours

The figures in the margin indicate full marks for the questions.

Attempt any four.

- 1. Prepare a questionnaire of 10 questions including all the scales of measurement under SPSS. Give a diagrammatic representation of the same in the 'variable view' under SPSS.

 5×2=10
- Explain how to enter data in SPSS software with proper example.

- along with the process of correlation in SPSS. Describe the need of correlati
- Write short notes on: (any two)
- Descriptive Statistics under
- (ii) Tests of significance in SPS
- (iii) Chi-square test in SPSS
- Ġ The following tables depict the o simple regression analysis und Identify the problem. Explain data. Interpret each of the output a proceed for simple regression on the relevant regression equations.

Model Summary

2+3

and non-parametric tests in SPSS. 3+1

Predictors: (Constant), body weight of the rats in grams.

1 SEM MCOM (CBCS) USS 500/D 3

(a) Stati

PB

CO 1100 500/D

1010	Estimate	+3+2=10	the said und frame	outputs of ler SPSS.	ŠŠ	r SPSS	5×2,	ion ana compu	
o. and	(a) Deport	1. (Constant) Body weight of the rats in grams the	Model Coef	(b) Deperior	Total 2007 (a) Predictor		6.271	Sum of Souares	
\	(a) Deporture tests applied un SPSO 3+7=10 Explain the tests applied un SPSO 3+7=10 Explain the tests applied un SPSO 3+7=10 400	grams .036 .016 Liver weights of the rats in grams.	Coefficients Beta B Std. Eror B 2.811 470	Coefficients Coefficients Coefficients Coefficients	predictors: (Constant in grams). Predictors: the rats in grams weights of the rats in grams. The rate in grams in grams.	18 tant), bo	1 1.303	df Mean square	TOV/Ab
	SPS5. 3+7=10	Liver weights of the rats in grams. the rate parametric	.587 .505 2.194 .042	ats f Sig.	ts in grains. Liver weights of the rats in grams.	ody weight of		F Sig. 4.814 0.042"	

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1 SEM MCOM (CBCS) USS 500 2023

(December)

COMMERCE

Paper: 10500 (AEC)

(Use of Statistical Software)

Full Marks: 40

Time: Two hours

The figures in the margin indicate full marks for the questions.

- 1. Short answer-type questions: 1×15=15
 - (a) What is the full form of SPSS?
 - (b) In which year SPSS was introduced?
 - (c) What is a variable?
 - (d) Find out the attribute:
 - (i) Religion
 - (ii) Height
 - (iii) Income
 - (iv) Age

ic: Model De 1 SEM MCOM (CBCS) USS 500/D 2 F 9 In SPSS, how can you recode values of a variable into different categories 2 (iii)(ii) a variable into different categories? S (e) (ui) (iii) (ii) SPSS is widely used for Using the 'Data' menu Using the 'Analyze' menu Using the 'Transform' menu (iv) Ordinal scale Using the 'Graphs' menu (iii)(ii) Gender comes under which scale web development and What is the singular term of data; (i) programming data visualization and image and video editing presentation mobile app development Ratio scale Interval scale Nominal scale 1 (m) Detween 1 SEM MCOM (CBCS) USS 500/D 3 9 079S 91. (ii) data view SPPS? Which regression technique is used in Briefly (n) resion Sampersands (&) Of-erfiv) letter A correlation of -<u>E</u> is no straight line relationship at all. spreadsheet. None of the above Data can be entered in the Linear regression Logistic regression Multiple regression All of the above (iii) Both (i) and (ii) The variables name must begin with a variable view number space (a) Statistical I indicates there Contd. BCS) USS U 2022) 1 :ware) indi stion any

What are the features and advantages of What are the features and advantages of SPSS? How is arithmetic mean computed 5+5=10 SPSS? Write short notes on: (any one) (ii) Non-parametric tests under SPSS 1 SEM MCOM (CBCS) USS 500/D 5 (a) Stat

Total number of printed pages-4

1 SEM MCOM (CBCS) USS 500

2024

(December)

COMMERCE

Paper: 10500 (AEC)

(Use of Statistical Software)

Full Marks: 40

Time: Two hours

The figures in the margin indicate full marks for the questions.

Attempt any four questions.

- Short answer type questions: 1×10=10
 - (a) What is SPSS?
 - (b) What are the characteristics of a ratio scale?
 - (c) What is a hypothesis?
 - (d) What is descriptive statistics?
 - (e) What is the relationship between any two variables when the correlation coefficient is zero?

(j) What does the Operation 'Recode Into Different Variables' do to the data?

(i) Replaces missing data with some random scores

(ii) Reverses the position of the independent and dependent variable on a graph

(iii) Redistributes a range of values into a new set of categories and creates a new variable

(iv) Represents the data in the form of a pie chart

5×2=10

Distinguish between:

(a) Correlation and Regression

2

(b) Primary and Secondary Data

Explain the tests applied under parametric and non-parametric tests in SPSS.

Discuss the different scale of measurement

with appropriate examples.

Critically analyze the output table which have been generated in SPSS and answer the following:

Ġ

(a) Total no. of respondents
 (b) Determine dependent and independent
 variables

(c) Correlation coefficient (d) Regression coefficient

Contd.

w

	Variables Ent	tered/Removed ^b	198
Model	Variables Entered	Variables Removed	Method
1	Reading score ^a		Enter

All requested variables entered

b. Dependent variable: grade point average

	1 1 10	Model S	ummary	
Model	R	R square	Adjusted R square	Std. Error of the Estimate
1	·867a	.752	·733	·32848

rs: (constant), reading score

	ANO	AVC	b e e	341 .1	
Model	Sum of squares	df	Mean square	ERED.	
1 Regression	4.253	1			sig.
3.0		1	4.253	39.418	·000a
Residual	1.403	13	·108	STATE -	
Total	5.656	14			

^aPredictors: (constant), reading score

bDependent variable: grade point average

Model	Unstandardized coefficient		Standardized coefficient	t	sig	95% co	nfidence
errafin in	В	Stel Error	Beta		Tre (Interna	l for B
2,0,000		nem a	quite.		de a	Lower	Upper
1 (Constant)	-111	·446	2010	040		Bound	Bound
Reading score	.061	·010	.867	-248	000	-1.075	·0853
Dependen		A 1000	.867	6.278	.000	·040	.082