2023

AGS 3rd Semester Examination

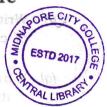
B.Sc. Hons. in Agriculture

Statistical Methods

PAPER - AGS-308

Full Marks: 50

Time: 2 hours



The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer from all the Groups as directed.

My Briefly ex A-quong

- 1. Answer any five questions from the following:
 - What do you understand by statistics? Write down its limitations.
- (b) Differentiate classification from tabulation.

/851

(Turn Over)

What do you understand by population and sample?

(d) What do you mean by random sampling?

Se Mention the equation of simple correlation

Write down the characteristics of measures of central tendency.

What do you understand by binomial distribution?

B How diagrams are useful in representing statistical data?



GROUP-B

- N Answer any four questions from the following : 5×4=20
- (a) Briefly explain experimental unit and treatment. 2.5+2.5=5

Describe different types of data collection methods.

Differentiate primary data from secondary data.

(Continued

Mention the classification of correlation. correlation. Explain the features of partial and multiple

Write down the steps involved in testing of hypothesis. hypothesis.

and application of T-test. Briefly write down the condition, properties 2+1+2=5

GROUP-C

3. Answer any two questions from the following 10×2=20

pie chart from the representing data: contains the following nutrients. Draw a Name different types of diagrams. A food What do you understand by diagram? What are the merits and demerits of diagrams?

л%	Minerals
15%	Vitamins
40%	Carbohydrates
10%	Fat
30%	Protein
Percentages	Nutrients

(Turn Over)

/851



What do you understand by sampling? Describe different methods of sampling. What is the probability of getting 53 Sundays when a leap year is selected at random?

1+5+4=10

M

What are the basic principles of design of experiment? Fill the ANOVA table of an RBD design: 5+5=10

Source of Variation	Degree of Freedom	Sum of Square	Mean Sum of Square	F value
Blocks	4	?	1.033	
Treatment	4,11 80	21.457	?	?
Error	?		1.023	
Total	24	arol R tors	Waat do vo	W.

(a)

Write short notes on any **five** of the following: $2\times5=10$

Standard Deviation

(ii) Box-plot technique

(iii) Probability

(iv) Chi-square test

(6) LSE

(vi) Cumulative frequency

* * *

AGS/3rd Sem/308/23

BL24/3(097)—90