MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION
B.Sc.(Hons.) A.B.M.

Semester	: III (New)	Term	: First	Academic Year	: 2022-23
Course No.	: STAT 231	Title	: Statistical Methods		
Credits	: 2(1+1)				
Day & Date	: Friday, 03.02.2023	Time	: 09:00 to 11:00 hrs.	Total Marks	: 40

Note : 1. Solve ANY EIGHT questions from SECTION 'A'.
2. All questions from SECTION 'B' are compulsory.
3. All questions carry equal marks.
4. Draw neat diagram wherever necessary.

SECTION 'A'

Q.1 Define regression. Write down any three properties of regression coefficients.

Q.2 What is meant by central tendency? Enlist the measures of central tendency. State requirements of good average.

Q.3 Define correlation and write down the properties of correlation coefficient.

Q.4 Explain simple random sampling with and without replacement.

Q.5 Write short notes on:

a) Mutually exclusive events b) Random experiment

Q.6 Write down the procedure to determine median and mode graphically.

Q.7 What is meant by measures of dispersion? Write down the characteristics of measures of dispersion.

Q.8 Write a short note on Skewness and Kurtosis.

Q.9 Explain Paired t-test.

Q.10 Differentiate between one way and two-way ANOVA.

SECTION 'B'

Q.11 Fill in the blanks:

1) The discrepancy between statistic and parameter is called_____.
2) Probability lies between _____ to _____.
3) _____ is called as Father of Indian Statistics.
4) Finite part of population is called as _____.

Q.12 State True or False:

1) Regression coefficient lies between -1 to +1.
2) Mean deviation is the most reliable measure of central tendency.
3) Correlation coefficient is the harmonic mean of two regression coefficients.
4) Chi-square test is used for testing independence of two attributes.

✧ ✧ ✧ ✧ ✧ ✧ ✧ ✧ ✧

agromind.in

Telegram - AgroMind