

Bachelor of Rural Studies (BRS) (Honours) Examination, 2018
Semester-II
Rural Studies
Paper-10
(Basic Statistics for Rural Studies-I)

(For Back Candidates only)

Time: Three Hours

Full Marks: 40

Questions are of value as indicated in the margin

Group-A

Answer *any two* questions

$2 \times 2.5 = 5$

1. Calculate the weighted mean price of a table from the following data, assuming that weights are proportional to the number of tables sold:-
Price per table (Rs.) : 36 40 44 48
Number of tables sold: 14 11 9 6
2. Find the medians of (i) 32, 22, 29, 17, 40, 26, 21; (ii) 3.1, 2.6, 5.0, 4.7, 2.4, 3.9, 5.1, 3.6.
3. Find the standard deviation from the following data:-
49, 63, 46, 59, 65, 52, 60, 54
4. Find the mean deviation about the arithmetic mean of the numbers 31, 35, 29, 63, 55, 72, 37.

Group-B

Answer *any five* questions

$5 \times 7 = 35$

5. What are the characteristics and limitations of statistics? What is a scatter diagram? 4+3
6. Distinguish between census method and sample survey method.
7. Distinguish between absolute and relative measure of dispersion.
8. Calculate the mean, median and mode from the following frequency table:
Class interval : 50-59 60-69 70-79 80-89 90-99
Frequency : 14 38 44 54 45
100-109 110-119
30 25
9. Compute the standard deviation of house hold size from the following frequency distribution of 500 households:
Household size: 1 2 3 4 5 6 7 8 9
No. of households: 92 49 52 82 102 60 35 24 4

P.T.O.

(2)

10. Marks of 10 students in Mathematics and statistics are given below:

Mathematics (X): 32 38 48 43 40 22 41 69 35 64

Statistics (Y) : 30 31 38 43 33 11 27 76 40 59

Calculate the correlation coefficient.

11. The coefficient of correlation between two variates

x & y is $r = 0.60$. if $\sigma_x = 1.50$, $\sigma_y = 2.00$, $\bar{x} = 10$ and $\bar{y} = 20$, find the equation of regression lines of (i) y on x , (ii) x on y .
