

MODEL QUESTIONS

class - U.G (programme)

Semester - 5

Subject - Economics

Paper - GE (501) Statistics

Group - (A) ~~(B)~~

(Compulsory)

multiple choice questions

Time - 3 hours

F.M = 70

2 x 10 = 20

- (I) If $y = a + bx$, what is the slope of the equation
- (a) y (b) x
(c) a (d) b

- (II) Value of Correlation Coefficient - (a) (b) (c) (d)
- (a) always positive (b) always negative
(c) lies betw -1 to $+1$ (d) none of the above.

- (III) Coefficient of Quartile Deviation is
- (a) $Q_3 - Q_1$ (b) $Q_3 + Q_1$
(c) $\frac{Q_3 - Q_1}{2}$ (d) none of the above.

- (IV) Formula for Coefficient of Standard Deviation is
- (a) $\frac{s}{\bar{x}}$ (b) $\frac{s}{\bar{x}} \times 100$ (c) $\frac{\bar{x}}{s}$ (d) none of the above

- (V) If $b_{yx} = 0.9$ and $b_{xy} = 0.6$ the Correlation Coefficient is
- (a) .6 (b) .36
(c) .06 (d) ~~none~~ none of these

(vi) ~~Which~~ Ideal Index number is related w/15

- (a) Fisher (b) Keynes
(c) Laspeyres (d) Edgeworth

(vii) Two regression coefficient have

- (a) Same Sign (b) different Sign
(c) both (a) and (b) (d) none of the above

(viii) If $\bar{X} = H.M = G.M$, mean two, in a series are

- (a) equal (b) different-
(c) both (a) and (b) (d) none of the above.

(ix) Which of the statistical average takes into account all the numbers equally

- (a) median (b) mean
(c) mode (d) none of these

(x) Which is not a part of Central tendency

- (a) mean (b) median
(c) mode (d) Quartile

Answer key of MCQs.

- | | |
|---------------|----------------|
| (i) ——— (a) | (ii) ——— (c) |
| (iii) ——— (d) | (iv) ——— (a) |
| (v) ——— (a) | (vi) ——— (a) |
| (vii) ——— (a) | (viii) ——— (a) |
| (ix) ——— (b) | (x) ——— (d) |

Group - B
Short Answer Type Question
~~Answer~~ Answer any four questions

5x4=20

① Differentiate between Primary data and Secondary Data

② Define mean and median

③ Distinguish between Negative and Positive Correlation

④ Find median when

| | | | | | |
|-----|----|----|----|----|----|
| X = | 15 | 25 | 35 | 45 | 55 |
| f = | 5 | 17 | 25 | 12 | 8 |

⑤ If two items in a series are 8 and 8
find A.M, H.M and G.M.

⑥ Find coefficient of ~~Rank~~ Range when

| | | | | | | | | |
|-----|----|----|----|----|---|----|----|----|
| X = | 10 | 18 | 15 | 11 | 6 | 15 | 12 | 28 |
|-----|----|----|----|----|---|----|----|----|

⑦ Fisher Index Number is Ideal Index Number, Why?

⑧ Find mean when

| | | | | |
|-----|---|----|----|----|
| X = | 5 | 10 | 15 | 20 |
| f | 2 | 4 | 6 | 3 |

Group-C
Long Answer Type Questions

Ag-4
GE-501
Statistics
Sem-5

Answer any two

15 x 2 = 30

10. Find the median from the following data

| | | | | | |
|-----|---------|-------|-------|-------|-------|
| C-I | = 10-20 | 20-30 | 30-40 | 40-50 | 50-60 |
| f | = 2 | 7 | 11 | 8 | 2 |

11. Calculate Quartile Deviation

| | | | | | |
|-----|--------|-------|-------|-------|-------|
| C-I | = 5-10 | 10-15 | 15-20 | 20-25 | 25-30 |
| f | = 2 | 8 | 15 | 11 | 8 |

12. Find Regression equation of Y on X

| | | | | | | |
|---|------|---|---|---|---|---|
| Y | = 1 | 2 | 3 | 4 | 5 | 6 |
| X | = 10 | 8 | 5 | 3 | 2 | 1 |

13. Calculate Karl Pearson's Coefficient of Correlation

| | | | | | | | |
|---|-----|---|---|---|----|---|---|
| X | = 5 | 8 | 7 | 9 | 6 | 4 | 3 |
| Y | = 2 | 7 | 5 | 8 | 10 | 4 | 2 |



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