

C 62111

(Pages : 2)

Name..... 23

Reg. No.....

FOURTH SEMESTER B.A. DEGREE EXAMINATION, MAY 2014

(UG—CCSS)

Core Course

EC 4B 05—QUANTITATIVE METHODS FOR ECONOMIC ANALYSIS—II

Time : Three Hours

Maximum : 30 Weightage

Part A

Answer all questions.

Each question carries ¼ weightage.

1. The correlation between price and supply is :
 - (a) Positive.
 - (b) Negative.
 - (c) Nonlinear.
 - (d) Exponential.
2. The two regression lines intersect at :
 - (a) Mean values.
 - (b) Origin.
 - (c) Median values.
 - (d) Model values.
3. Time series model is :
 - (a) Additive but not multiplicative.
 - (b) Multiplicative but not additive.
 - (c) Additive and multiplicative.
 - (d) Neither additive nor multiplicative.
4. Deciles divide the data equally in the ascending order of :
 - (a) 5.
 - (b) 4.
 - (c) 10.
 - (d) 100.
5. The state which has the least IMR in India as per the 2001 census is _____.
6. Fisher's index number is the geometric mean of _____.
7. The regression measures _____.
8. Sex ratio means _____.
9. Give *one* example of irregular variation.
10. What are the limits of rank correlation coefficient ?
11. What is the SDR in Kerala as per 2001 census ?
12. Mention one test for testing the consistency of Index numbers.

(12 × ¼ = 3 weightage)

Turn over

Part B (Short Answer Questions)*Answer all questions.**Each question carries 1 weightage.*

13. What is Index number ?
14. What are quartiles ?
15. What is meant by Paasche's index number ?
16. What do you mean by NSE-NIFTY ?
17. What do you mean by couple protection ratio ?
18. What is the interpretation of correlation coefficient ?
19. Find the geometric mean of 12 and 25.
20. What is the formula for shifting base in index numbers ?
21. What is net reproduction rate ?

 $(9 \times 1 = 9 \text{ weightage})$ **Part C***Answer any five questions.**Each question carries 2 weightage.*

22. Explain the following (i) Splicing of Index numbers ; (ii) Time reversal test.
23. How Pie-diagram is constructed ?
24. State two merits and two demerits of Index numbers.
25. Distinguish between Skewness and Kurtosis.
26. Explain briefly the fitting of the parabola $y = ax^2 + bx + c$ using principle of least squares.
27. Explain (i) Maternal morality rate ; (ii) Couple protection ratio.
28. What are the uses of Vital Statistics ?

 $(5 \times 2 = 10 \text{ weightage})$ **Part D***Answer any two questions.**Each question carries 4 weightage.*

29. Describe different measures of dispersion.
30. Calculate regression lines from the following data :—

| | | | | | | | | | |
|-------|----|----|----|----|----|----|----|----|----|
| x : | 20 | 25 | 30 | 15 | 28 | 32 | 35 | 17 | 29 |
| y : | 30 | 18 | 25 | 10 | 30 | 25 | 15 | 30 | 27 |

31. Explain different components of time series analysis.

 $(2 \times 4 = 8 \text{ weightage})$