(FOR THE CANDIDATES ADMITTED

DURING THE ACADEMIC YEAR 2023 ONLY)   REG.NO. :   22UEO6E4

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : MAY& 2025

BA (ECONOMICS)   **MAXIMUM MARKS: 50**

SEMESTER: VI   **TIME : 3 HOURS**

PART-III

22UEO 6E4– STATISTICAL METHODS -II

SECTION – A   **(10 X 1 = 10 MARKS)**

ANSWER THE FOLLOWING QUESTIONS

1. Index numbers are used to measure _____.
   a) Changes in economic variables
   b) Population growth
   c) Statistical errors
   d) None of the above
2. Which method is NOT used for constructing index numbers?
   a) Simple aggregative method
   b) Weighted index method
   c) Random sampling
   d) Simple average relative method
3. The Fisher index is also known as _____.
   a) Geometric mean of Laspeyre and Paasche indices
   b) Arithmetic mean of Laspeyre and Paasche indices
   c) Weighted average method
   d) None of the above
4. Which of the following is NOT a component of Time Series?
   a) Secular trend
   b) Seasonal variation
   c) Median
   d) Irregular variation
5. The National Sample Survey Organization primarily deals with _____.
   a) Census
   b) Sample surveys
   c) Budget allocation
   d) Agricultural production

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

6. Define index numbers.
7. What is the purpose of the consumer price index?
8. Name the methods of measuring trends in time series analysis.
9. Define research design.
10. What are the main methods of sampling?

SECTION – B   **(5 X 3 = 15 MARKS)**

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ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS

11. a) Explain the uses of index numbers.

(OR)

b) Calculate the weighted price index using the following data:

Commodity	Price in 2020	Price in 2025	Weight
A	10	15	4
B	20	30	2
C	25	40	3

11. a) Discuss the components of a time series.

(OR)

b) Explain the semi-average method of measuring trends.

12. a) What are the features of a good research design?

(OR)

b) Discuss the importance of planning in a statistical survey.

13. a) Explain the differences between census and sample methods.

(OR)

b) Describe stratified random sampling.

14. a) Outline the functions of the National Sample Survey Organization (NSSO).

(OR)

b) List the methods of estimating national income.

SECTION – C (5 X 5 = 25 MARKS)
ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS

16. a) Discuss the methods of constructing price index numbers.

(OR)

(b) Construct the price index number for the following data using all the methods:

Commodity	Price in		Qty in	
	2020	2022	2020	2022
A	10	15	4	3
B	20	30	5	4
C	25	40	2	2
D	28	50	3	3
E	30	45	6	4

17. a) Discuss the methods of measuring trends in time series with examples.

(OR)

b) Explain in detail the least square method for trend analysis.

18. a) What are the important concepts related to research design?

(OR)

b) Explain the steps involved in executing a statistical survey.

19. a) Discuss the various methods of random sampling with examples.

(OR)

b) Describe the non-random sampling methods.

20. a) Explain the process of population census and its significance.

(OR)

b) Discuss the usefulness and difficulties of estimating national income in India.

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