

**(FOR THE CANDIDATES ADMITTED  
DURING THE ACADEMIC YEAR 2020 ONLY)**

**20UEO6E3**

**REG.NO. :**

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

**END-OF-SEMESTER EXAMINATIONS : MAY - 2023**

**COURSE NAME: B.A.-ECONOMICS**

**MAXIMUM MARKS: 70**

**SEMESTER: VI**

**TIME : 3 HOURS**

**PART - III**

**STATISTICAL METHODS – II**

**SECTION - A**

**(10 X 1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS.**

**MULTIPLE CHOICE QUESTIONS.**

**(K1)**

1. The index that satisfies factor reversal test is \_\_\_\_\_.
 

(a) Paasche's Index	(b) Laspeyre's Index
(c) Fisher's Ideal Index	(d) Walsh price index
2. A time series is a set of data recorded \_\_\_\_\_.
 

(a) Periodically	(b) At equal time intervals
(c) At successive points of time	(d) All the above
3. Action-research is: \_\_\_\_\_.
 

(a) An applied research	(b) A research carried out to solve immediate problems
(c) A longitudinal research	(d) All the above
4. Deliberate sampling is also known as \_\_\_\_\_.
 

(a) Convenience sampling	(b) Simple random sampling
(c) Purposive Sampling	(d) Quota Sampling
5. Which of the following is incorrect?
 

(a) $GDP_{MP} = NDP_{MP} + \text{Depreciation}$	(b) $GNP_{FC} = GNP_{MP} + \text{Net Indirect taxes}$
(c) $NNP_{MP} = NDP_{MP} + \text{Net factor income from abroad}$	(d) $NDP_{FC} = GDP_{FC} - \text{Depreciation}$

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES (K2)**

6. Define Index Number.
7. Write short notes on irregular variation.
8. State the research design.
9. Write a note on Quota sampling.
10. What are the Major food crops in India?

**SECTION – B**

**(5 X 4 = 20 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) State the uses of index numbers.

**(OR)**

- b) Explain Laspeyres' Index Number.

**(CONTD.....2)**

12.a) What are the Approaches to time series?  
**(OR)**  
 b) Define Time series analysis and its uses.

13. a) Distinguish between Sampling error and Non-Sampling Error  
**(OR)**  
 b) Describe the Steps Implementing a Statistical Survey

14. a) What are the characteristics of a good research design?  
**(OR)**  
 b) Differentiate between exploratory research and descriptive research.

15. a) If the Real GDP is Rs.500 and price index (base = 100) is 125, calculate the Nominal GDP.  
**(OR)**  
 b) Narrate the various methods of computing national income.

**SECTION - C** **(4 X 10 = 40 MARKS)**

**ANSWER ANY FOUR OUT OF SIX QUESTIONS**

**(16<sup>th</sup> QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS  
 (FROM Qn. No : 17 to 21) (K4 (Or) K5)**

16. Calculate Laspeyres', Paasche's and Fisher's index number for the data given below

Commodity	Base Year		Current Year	
	Price	Expenditure	Price	Expenditure
A	5	50	6	72
B	7	84	10	80
C	10	80	12	96
D	4	20	5	30
E	8	56	8	64

17. Discuss the nature of problems involved in the construction of index numbers.

18. Explain briefly the components of time series.

19. Define extraneous variables. Discuss the methods of controlling the effect of extraneous variables.

20. Enumerate the methods of sampling Design.

21. Explain the precautions that should be taken while estimating national income by expenditure method.

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