

**2022**

**ECONOMICS — HONOURS**

**Paper : SEC-A-1**

**(Data Analysis)**

**Full Marks : 80**

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words  
as far as practicable.*

**Group - A**

Answer *any ten* questions.

2×10

1. What do you mean by Census?
2. Write two basic problems in Census Data.
3. What do you mean by Base Year in National Account Statistics (NAS)?
4. Briefly explain the concept of Pie Diagram.
5. What do you mean by Frequency Polygon?
6. What are the different methods of collecting primary data?
7. Write the formula of Median for Group Data.
8. What are the Mean and Standard Deviation of a Standardized Variable?
9. What do you mean by Non-Sampling Error?
10. "Random Sampling is Sampling in a Haphazard Manner" – true or false?  
Briefly explain your answer.
11. What do you mean by Household according to NSS?
12. What is the meaning of Tabulation?
13. What do you mean by Livestock?
14. What do you mean by Reference Period in Household Consumer Expenditure Survey?
15. What is labour force participation ratio according to NSSO?

**Please Turn Over**

**Group - B**

Answer *any four* questions.

16. What do you mean by standard error of a sample mean? How do you distinguish between 'Standard Error' and 'Standard Deviation'? 2+3
17. What type of information we get from 'Sample Registration System' (SRS)? What system/method does India follow? Briefly discuss the method of SRS in India. 1+1+3
18. What is frequency curve? How many types of frequency curve are available in statistics? Briefly explain with diagram. 1+4
19. What do you mean by Second Stage Strata (SSS) in NSS Data? 5
20. Discuss briefly the objectives of National Population Register. 5
21. From where do we get the Sector Wise Gross Value Added Data (at Current Price) of India? Briefly discuss the two limitations of this database. 5

**Group - C**

Answer *any four* questions.

22. State the various reasons why Errors are made in the interpretation of Statistical Data and indicate how to guard against such errors. 6+4
  23. Discuss the advantages of sampling method over census method of collecting statistical information. Define classification. What are the different types of classification available in statistics? 6+4
  24. What are objectives of the employment and unemployment surveys of NSSO? What are the first stage units of NSSO 68th round? What are the number of household surveyed and person surveyed in this round? What do you mean by activity status? 4+2+2+2
  25. What is an Outlier? What is the procedure to determine the presence of Outlier in a dataset? 5+5
  26. What do you mean by (i) base shifting, (ii) splicing of index number? Explain with examples. An index number is at 100 in 1971. It rises 10% in 1972, falls 4% in 1973, falls 2% in 1974, again rises 10% in 1975 over the preceding year. Calculate the index number for the 5 years with 1974 as base. 5+5
  27. Write short notes on *any two* : 5×2
    - (a) Sampling Error
    - (b) Mean Imputation for Missing Data
    - (c) Type-II Error
    - (d) Selection Bias.
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