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Note By: Roshan BiSt

Introduction

@ Definition of statistics -> Statistics is one of the branch of science where we study about the data.

According to Croxton and Cowden, statistics is the collection of data, presentation of data, analysis and interpretation of data.

9.N.1 Define data and describe it's types?

Ans: Data is the information which is useful for any kinds of research activity or data is the raw material for any kinds of inquiry/research.

1) Primary data -> Primary data are those data which is collected by investigator himself/herself.

OR Primary data are first time collected data.

For e.g. CBS (Central Bewou of Statistics) in Nepal conducts population cencus on every 10 years. So the data collected by CBS is primary data.

Secondary data - Secondary data are those data which is collected by one and used by any other.

Secondary data are the second hand data. For e.g. If we use CBS data, the data will be secondary data

Q.No.2: Describe the methods of collecting primary data.

Ans. Different methods on collecting primary data are as

follows:-

Direct personal interview- This method is used when the field of inquiry is small and desire for a greater accuracy. According to this method, investigator obtains data by the personal objects observation of the objects under The Indirect interview-> According to this method information is callected from third person when respondent hesistate to give their answer or information in complex. Under this method instead of directly approaching to respondent, the investigator interviews several third persons.

Mailed guestionais According to this method a questionaire containing a number of questions are send to respondent or informants requesting to answer the questions and return the questionaire. It is cheap method of collecting information. It that high chance of non response.

Information through telephone - According to this method information is obtained through telephone instead of face to face contacting informants. It is quick and accurate method of getting information. It is cheap method of collecting information.

V) Information through correspondents - According to this method information can be collected from local agents or correspondents appointed in different areas under investigation. The agent provides information of different incidence to the investigator.

Q.No.3: - Describe methods or sources of collecting secondry data.

Ans: Secondry data source is broadly classified into two dypes:-

Published Source: Different published source of secondry data are national organizations and international agencies.

> International agencies like WHO, World Bank, International Labour Organization.

-> Glovernmental organizations such as Central Bureau of statistices, Ministry of commerce and Industry, Nepal Rostra Bank.

-> Semi-Giovernmental organizations such as Nepal Food Corporation, Nepal Electricity Authority

-> Private organizations such as Nepal chamber of Commerces

Unpublished Source + All the statistical information may not be in published form. Some of governmental and private organizations do not publish statistical information. Records of individual business, schools, colleges, trade centre etc are not published.

Q.No.4 Write differences between primary and secondry data.

Ans:

		•
	Primary data	Secondry data
	1) Primary data are original	is Secondry data are not
		et 18 collected by one and
	collected by investigator chimself/herself.	used by the other.
	is Primary data collection 18	18) Secondry data are less
	expensive.	expensive than primary data
		iii>Secondry data are
	by direct interview and	collected from published
	indirect interview method.	and unpublished sources.
	ev) Primary data are collected	our secondry data might
	of per requirement of unvestigator.	have been collected for different objective.
	V) Primary data are influenced	v) Secondry data are not
	by investigators biasness.	Influenced by investigators basness.
1		C

bias -> भप दार गर्न सकन

QNO.5 Describe limitations of statistics.

Ans: The limitations of statistics are described below:

No statistics does not study andividuals. Individuals facts and figures are of importance to individuals only statistics figures are of importance to individuals only statistics does not deals with them. It deals with mass phenomena and aggregates.

Statistics does not study qualitative phenomenon-) Statistics can be applied only on quantitative expression and not on qualitative phenomenon like honesty, healthy skills etc.

- iii) Statical data does not reveal the entire stopy. It do not reveal the entire stony of problems. This i's because many problems are attected by factors which are mapable of statical problems analysis. Statical data only revel summarized, reduced form.
- Statical results are not always unquestionable > It helps us in studying trends, in forming an idea of probabilities, in knowing how a given phenomenon has been behaving generally necessarily unquestionable and reliable.
 - v). Statical data are trable to be misused eaisty > Any person can use statistics and draw any type of conclusion like medicines in the hands of quacks, statistics can be eaisty misused by the inexpert.

Q.No.6. Explain the scope of statistics.

Ans: The scope and importance of statistics are as follows:

Statistics and planning-> Statistics as almost all over the world. The government are re-storing to planning. for economic development.

Economics -> Statistical data and techniques of Statical analysis have to immensely useful involving economical problem. Such as wages, price, time series analysis, demand analysis.

Business -> Statical data are used for studying the much and more desire of the valued customers which helps in productivity of business.

iv) Industry -> In industry statistics as widely used whether the product is confirming to the specifications or not.

Modern Science -> In modern six science like medical science the statical tools are used for collection presentation and analysis of observed facts. Also in the result of application of various drugs and medicine.

QNo.7 Discuss the application (or role) of statistics in CSIT.

Ans: The computers can perform many statistical calculations eaisty and quickly. Computations of means, standard deviations, analysis of varience, analysis of covariance etc. can be solved very reaisty using multivariate analysis etc. can also be done very eaisty.

Recently developed statical procedures such recognization and image analysis are essentially computational. Researchers, using computers, can reliabelity. Statistics respond appropriately to the areas of experimental sciences. Besides this the computer science and Information dechnology which can be answer of question of "How long should we expect the LCD monitors to last before faliure?" then we must take

Q.No.8. What is measurement scale? Describe different types of measurement scale.

Ans:- The measurement consisting of ounting the number of units or parts of units displayed by objects and phenomena is called measurement scale. Following are the different types of measurement scale.

Nominal scale > It is simplest and lowest level of measurement scale. It is simply a system of assigning number or the symbols to objects or events to distinguish one from another or order to label them. The symbols or numbers have no numerical meaning. The arithmetic operations cannot be used for these numerals.

102 Ordinal scale > The second and the lowest level of ordered scale is the ordinal scale. It is the quantification of items by ranking. In this scale, the numerals are arranged in some order but the gaps between the positions of the numerals are not made equal. It represents qualitative values in ascending or descending order.

Interval scale -> In addition to ordering the data, this scale uses equidistant units to measure the difference between the scores. It assumes Lata has equal intervals. This scale does not have absolute zero but only arbitrary zero. Interval scale 48 the developed form of ordinary

Ratio scale -> Ratio scale is the ideal scale and an extended form of interval scale. It is most powerful scale of measurement. It possesses the characteristics of nominal pordinal and interval scale. Ratio scale has an absolute zero or true zero or natural zero of measurement.

(3). Conversion of inclusive type of class inferval into exclusive:

(F) For converting first we find correction factor as:-CF=lower limit of next class-upper limit of previous class

(P) Then we need to subtract Gf from lower limit and we need to add Cif to upper limit of each class interval.

For example: Convert the given inclusive type of class interval into exclusive. Income 20-29 30-39 40-19/50-59

Income 20-29 30-39 40-19 50-59 No. of people 2 3 4- 1

Here, CF = 30-29 = = = = 0.5

Now exclusive type is as: I Income 19.5-29.5 29.5-39.5 39.5-49.5 49.5-50 No. of people 2

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