Business Statistics Notes

Unit 1: Introduction



1,2	Introduction to Statistics, Data Collection
1.	Definitions of statistics
(6)	Plural definition:
	To shape man district and the state of the s
	In plural sense statistics is defined as facts as information expressed numerically.
	An aggregate of facts aggregated to the state of the stat
	An aggregate of facts, nomerically expressed, affected by many factors,
	collected in a systematic manner with definite purpose, reasonable degree of accuracy are characteristics of statistics in plural sense.
ud	"Statistics may be defined as the aggregate of facts affected to a
chi.	marked extent by multiplicity of causes, numerically expressed enumerated
	as estimated according to a reasonable standard of accuracy, collected in
	a systematic manner for a predetermined purpose and placed in relation
110	to each other" By prof. Horace Secrist.
Э	Singular definition:
	In singular sense, statistics refers to the science of studying statistical
	methods.
	to Wailed anotherwaise righted and
	"Statistics may be defined as the science of collection, presentation, analysis
	and interpretation of numerical data! - By Croxton and Couxten.
2.	Data Collection
61.0	Data: of me forther stormer as the bear low with any management
	Data can be defined as numerical facts as figures as information which
	are used for the purpose of statistical analysis.
	Data are the raw materials for the final statistical conclusions.
	Collection of data is the 1st step in statistical investigation.
	Investigators: a person who conducts statistical enquiry collects the data
	Respondents/informant: Persons from whom information are collected
	Statistical units: The items on which measurement are taken

	Page 2	
	Data collection: Data collection is the process of collecting the necessary informations from the units of investigation:	
1.	Types of Data Primary Data Secondary Data	
1 1	Primary Data The data collected for the first time by the investigator or researcher and used by them in the statistical analysis are called the primary data	
1.	Methods of Collecting Primary Data The methods commonly used for the collection of primary data are as follows: Direct personal interview	
3. I	Indirect and interview Information through correspondence Mailed questionnaine method Schedules to be filled by enumerations	
Ir co • It	tisect Personal Interview: In this method investigators as researchers personally and asked the eccessary questions and collect the information (data) from them. The data allected by using the method are more accurate and reliable. Is the expensive and time consuming method. This method is not apposable when area of inquiry is large.	
· When	irect Oral Interview: The informants hesitates to give information directly then information are collected with the help of third person who is in close conwith respondents.	



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•	Respondents may hesitate to provide the information directly on the
	sensitive topics like drug addiction babit, smoking and alcoholic babits
-	acome, property, diseases such as AIDS, etc.
	his method is less expensive and take less time as compared with
	lixect personal interview.
•	It is applicable for wider area.
_	ote (motors at a
	Information through correspondence:
•	In this method the investigator appoints the correspondents for different
	narts of the field of the inquiry. They collect information and send to the
	overtigator (central office.
•	his method is more suitable in the news media.
•	It is applicable for wider area.
	billion speed a children on the speed of the
١.	Mailed Questionnaire Method:
	A set of questions is called questionnaire. The questionnaire are sent to
- 11	the respondent in their address by the post-the respondents are requested
	to answer the question and return to the investigator by the post within
	the specific time.
	The manufacture companies use this method for the promotion of their
	noods sould be a second to the second
	This method saves time, money and requires less man power. But this is
	not applicable when the respondents are not educated.
	THE STATE OF THE S
5.	Schedules to be filled by Enumerations:
.	called associate at a set of missions which are filled up by enumerations
	Population census, Agricultural census, follow this method in Nepalese conte
	xt.
6.	Problems to Collecting Primary Data
	lack of money and time
5 6	laut of dranspartation localities

•	There is high degree of non-response error from illiterate respondent
•	lack of expertise and trained manpower for preparing questionnaire and collecting the primary data.
	There is chance of getting unreliable in some situation because of the
	biasness of enumeralisms.
	Secondary Data
	The data which has been already collected by other person or agency are and are used by any other person or agency for their statistical
	10001
	Scurces of Secondary Data
	the sea of a daily of his or it's
	Published Unpublished
	official reports and publication Records maintained
	semi-official; NEB, NEC, etc. by private forms, various
	reposts and publications offices, hospitals, various
	Reports and publications of NGOs, departments of Governments
1	INGO, UNDP, ADB, WHO, etc. etc.
	Reposts and publications published
	y research institutions CEDA, TU, KU, PU-
	Tournals and Newspaper periodicals.
	Mexits of Secondary Data
	It saves time and cost of survey.
1	If a trained person collects secondary data, the quality of secondary data s better.
1	he scope of enquiry can be increased in terms of onea and time to be overed.
-	
0	emerits of Secondary Data
1	e definitions of teams and units used in secondary data are not usua-
IL	house with CamScanner

•	Secondary data obtained from two different sources may not be
•	Some information is comitted.
	Data may not be in the exact form as required by the researchers
10.	Precautions in using Secondary data and a lever to sent another a
•	Reliability of data
	Suitability of data ile burnia sent off = huratai sent quedial se
0.70	Adequag of data
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