

## Part A: Statistics for Economics

## **Chapter 2 : Collection of Data**

Q. NO	QUESTION	MARKS
1	What do you mean by Statistical Enquiry?	1
2	What do you mean by 'Data'?	1
3	If it is desired to conduct an enquiry into the age group of employees in a company and if such information is collected by the investigator from the workers themselves, then such data would be termed as	1
4	What is the difference between Questionnaire and the Schedule?	1
5	Why was Census 2021 postponed?	1
6	Write the formula of Absolute Error and Relative Error.	1
7	If a weighing machine states your weight as 75 kg, but you know that true weight is 74.5 kg, then the weighing machine has	1
8	Every unit of the population is investigated in a sample survey. (True / False)	1
9	Alternatives:	1
	I. Both Assertion (A) and Reason (R) are true and Reason (R) is the	
	correct explanation of Assertion (A).	
	II. Both Assertion (A) and Reason (R) are true and Reason is not the	
	correct explanation of Assertion (A).	
	III. Assertion (A) is true but Reason (R) is false.	
	IV. Assertion (A) is false but Reason (R) is true.	
	Assertion (A): Primary data is original.	
	Reason (R): Primary data is collected by the investigator himself.	
10	State the demerits of primary data.	1
11	<ul><li>KVS submits data on the number of students from different social categories studying in all KVs in the country to the Ministry of Education.</li><li>Q-State whether the data so collected by the KVS is primary data or secondary data.</li></ul>	1
12	Q-Data collected by a student from the <b>government journals</b> to prepare a project report is a (a)primary data (b)secondary data (c)census data (d)none	1
13	India TV-CNX Opinion Poll:KCR-led BRS is likely to win most of the seats in Telangana, however it isexpected to face a tough BJP challenge as the saffron party is predicted to gainsome seats in the southern state.Q-The findings of the Opinion Polls of Various News Channels are based on(a)secondary data (c)census data (d)sample data (d)none	1

14	Since its inception in 1970s,the NSSO has been conducting surveys on different socio-economic subjects and publishing in its quarterly journal <i>SARVEKSHANA</i> . It also compiles data for preparation of CPI and undertakes field works for Annual survey of industries and crop estimation which are useful for formulation of govt policies. Q-What kind of information is collected by the NSSO?	1
15	<ul> <li>Assertion(A): Sample method of investigation is economical.</li> <li>Reason(R): Random sampling allows every item an equal probability of being selected.</li> <li>Q-Choose the correct alternative</li> <li>(i) A is true but R is false</li> <li>(ii) A is false but R is true</li> <li>(iii) A and R are true but R isn't the correct explanation of A</li> <li>(iv) A and R are true and R is the correct explanation of A</li> </ul>	1
16	Q-Frame a two-way question relating to a questionnaire that you intend to design relating to your investigation on techniques of irrigation adopted by the farmers of your locality.	1
17	From the image sh sampling method.	1
18	You are studying in a school which is nearly 200 kms away from your home town. As a student you are keen to collect statistical information relating to per capita income in your town. Which mode of data collection will you prefer to adopt? Support your answer with reason.	1
19	Q-In a village of 200 firms, a study was conducted to find the cropping pattern. Out of 75firms surveyed it was found that only 50% grew rice. Identify the population and sample here.	1
20	A survey was conducted on measuring average height of the population. Certain sample size was selected in the survey. But there arouses a difference between the true value and estimated value of the parameter and the sample. Q-What kind of statistical error is this?	1
21	<ul> <li>"After many fluctuations the output of food grains rose to 132 million tonnes in 1978-79 from 108 million tonnes in 1979-80. Production of food grains then rose continuously to 252 million tonnes in 2015-16 and touched 272 million tonnes in 2016-17."</li> <li>In this above statement, the food grain production in different years is not the same."</li> </ul>	1

	Which type of data value is this ?	
22	A manager of a factory needs to study the socio –economic condition of	1
	workers of the factory. The trade union leader of the factory has already	
	conducted a similar study.	
	What values do you suggest to the manager of this factory to consider if this	
	depends on the data collected by the trade union leader ?	
23	"If you know about the popularity of a film star among school students, for this,	1
	you will have to enquire from a large number of students by asking questions	
	from them to collect the desired information."	
	Which type of data is this?	
24	"If a data regarding popularity of a film star is published in a report, any person	1
	uses this information." Which type of data is this?	
25		1
25	"The question should not be a leading question in a questionnaire, which gives a clue about how the respondent should answer."	1
	Give an example.	
26	Open-ended questions allow the more individualised responses, but they are	1
20	difficult to interpret."	-
	Give an example of an open ended question.	
27	"close-ended questions are easy to use, score and codify for analysis, because	1
	all respondents can choose from the given options."	
	Give an example of a close-ended question.	
28	"Once the questionnaire is ready it needs a pre-testing of the questionnaire."	1
	What step is this called?	
29	"The sex ratio of India ,as per the census conducted in 2011 was 940." What does this tell you about Indian society?	1
30	Mr. Ramesh has prepared a questionnaire to study social phenomena of people	1
	in a society . A question set by him in the questionnaire asks about the religion	
	of the respondents and also wants them to comment on other religions. Is it	
21	ethically right to design such a question ?	1
31	Read the following statements carefully and choose the correct alternatives given below:	1
	Statement 1 – Primary data are original in character.	
	Statement 1 - 1 milary data are originar in character.	
	Statement 2 – Data are collected by the investigator for his own purpose for the	
	first time.	
	Alternatives:	
	a. Both statements are true.	
	b. Both statements are false.	
	c. Statement 1 is true and Statement 2 is false.	
	d. Statement 2 is true and Statement 1 is false.	
32	Read the following statements - Assertion (A) and Reason (R):	1
	Assertion (A) – Direct personal investigation is suitable when area of enquiry is limited	
	and direct contact with the informants is necessary.	
	Reason(R) – Direct personal investigation method is elastic as the investigator can adjust the question and language of communication.	
	From the given alternatives choose the correct one:	
	a. Both Assertion (A) and Reason (R) is true but Reason (R) is the correct explanation	
	of Assertion (A)	

	b. Both Assertion (A) ar explanation of Assertio	nd Reason (R) is true but Reason (R) is not the correct n (A)	
	c. Assertion (A) is true b d. Assertion (A) is false		
33	Identify the correct seq with respective terms in	uence of alternatives given in Column II by matching them n Column I:	1
	Column I	Column II	
	A. Census method	i. Totality of items under study	
	B. Sample	ii. Extensive study of diverse items	
	C. Questionnaire	iii. A smaller group selected from the universe	
	D. Population	iv. A list of questions pertaining to the investigation	
	a. A-i, B-ii, C-iv, D-iii b. A-ii, B-iii, C-iv, D-i c. A-iii, B-iv, C-i, D-ii d. A-iii, B-ii, C-i, D-iv		
34	the statements and choo	ts given below, marked as Assertion (A) and Reason (R). Read use the correct option. tor is a person who helps the investigator in collecting data.	1
	questionnaire. From the given alternation a. Both Assertion (A) and of Assertion (A)	but Reason (R) is false.	
35	However, while question	naires are a list of questions related to purpose of investigation. nnaires are filled by(investigator/respondent/ on the other hand are filled by	1

36	An investigator has collected the required information by personal interview from the relatives of the unit of population. Identify the type of data and the method of data collection used.	1
37	Fill in the blanks with suitable terms given in the bracket:         While Census of India uses(Enumeration/ Estimation) method of data collection, NSSO is based on(Enumeration/ Estimation) method.	1
38	<ul> <li>There are two statements given below, marked as Assertion (A) and Reason (R). Read the statements and choose the correct option.</li> <li>Assertion(A): When items in population are diverse and complex, census method is suitable and will give desired results.</li> <li>Reason (R): Census method cannot be adopted if the population is infinite.</li> <li>a. Both Assertion (A) and Reason (R) is true but Reason (R) is the correct explanation of Assertion (A)</li> <li>b. Both Assertion (A) and Reason (R) is true but Reason (R) is not the correct explanation of Assertion (A).</li> <li>c. Assertion (A) is true but Reason (R) is false.</li> <li>d. Assertion (A) is false but Reason (R) is true</li> </ul>	1
39	From the set of statements given in Column I and Column II, choose the correct pair of statements:         Column I       Column II         A. Primary data       i. Collection of data from some agency         B. Secondary data       ii. First -hand data         C. Random       iii. Each & every unit of population has equal probability of getting selected         D. Systematic       Diverse characteristic of the population         Options:       a) A-i         b) B-ii       c) C-iii         d) D-iv       Diverse	1
40	<ul> <li>There are two statements given below marked as Assertion (A) and Reason (R).</li> <li>Read the statements and choose the correct option.</li> <li>Assertion (A): Sample method of investigation is economical.</li> <li>Reason (R): In sampling method only limited number of items are investigated.</li> <li>a. Both Assertion (A) and Reason (R) is true but Reason (R) is the correct explanation of Assertion (A)</li> <li>b. Both Assertion (A) and Reason (R) is true but Reason (R) is not the correct explanation of Assertion (A).</li> <li>c. Assertion (A) is true but Reason (R) is false.</li> </ul>	1

	d. Assertion (A) is false but Reason (R) is false.	
41	Q-Give examples of at least three cases where pilot survey is required.	3
42	While framing a questionnaire, what type of questions should be included?	3
43	The Ministry of Education is interested in determining the level of education of	3
	unmarried girls in the country. How would you organise a survey for this	
	purpose?	
44	"The method is used when the researcher has access to all the members. The	3
	researcher conducts face to face interviews with the respondents.	
	Personal interviews are preferred due to various reasons. Personal contact is	
	made between the respondent and interviewer. The interviewer has the	
	opportunity of explaining the study and answering the queries of respondents."	
45	Tell any three demerits of this method.	
45	"A survey, which includes every element of the population, is known as Census or the Mathed of Complete Enumeration. If contain according to interacted in	3
	or the Method of Complete Enumeration. If certain agencies are interested in studying the total nonvelocion in India, thy have to obtain information from	
	studying the total population in India, thy have to obtain information from households in rural and urban India. It is carried out every ten years. A house to	
	house enquiry is carried out, covering all households in India. Demographic	
	data on birth and death rates, literacy, employment, life expectancy, size and	
	composition of population,"	
	Explain any three qualities of this method with the name of this method.	
46	You would have seen the television coverage on exit polls before the results of	3
	Lok Sabha election in 2014. Which sampling technique is used in such cases	
	and how does it work ?	
47	An investigator has collected the required information by personal interview	3
	with the informant. What type of data will it be called? Mention its two	
	features.	
48	What will be kind of data published by the railway department regarding the	3
	progress of railway, for an investigator? Mention its two features.	
49	Do samples provide better results than surveys? Give reasons for your answer.	3
50 51	Write the three differences between Primary Data and Secondary Data.Give two examples each of sample, population and variable.	3
51	Define the terms: (a) Investigator (b) Enumerator (c) Respondent	3
52	Write the methods of collecting Primary Data. Explain in brief.	4
55	White the methods of concerning Finnary Data. Explain in orier.           What are the limitations of Secondary data?	4
55	Write the brief notes on National Sample Survey Organization.	4
56	In School quiz competition, 200 students filled the form.30 students are to be	4
	selected for competition. It has been clearly specified that out of 30,20seats are	-
	reserved for general category students,3 seats for students belonging to SC/ST	
	category and remaining are of students belong to OBC category Which	
	sampling technique according to you would be most suitable? Interpret any	
	three features.	
57	There is a debate competition in your school. Being School Captain, you have	4
	been entrusted with the responsibility of selecting the best orator from Class XI	
	for the same. Identify the sampling technique that you would use for this	
	purpose. Critically analyse any three merits	
58	In this method, there exists a direct contact between investigator and units of	4
	population. Identify the method. When will it be suitable?	

59	"Do you know how a manufacturer decides about a product or how a political party decides about a candidate? They conduct a survey by asking questions or candidates from a large group of people. The purpose of surveys is to describe some characteristics like price, quality, usefulness and popularity etc. The most common type of instrument used in surveys is questionnaire/interview schedule. You must keep some points while making a questionnaire." Write four points while making a questionnaire.	4
60	"The first task in selecting a sample is to identify the population. Once the population is identified, the researcher selects a method of studying it. If the researcher finds that a survey of the whole population is not possible, then he or she selects a representative sample. A sample is representative of a group or section of the population." What are the good qualities of the sample.	4
61	<ul> <li>Unautive the good quantee of the bangle.</li> <li>Unpublished data or literature is known as grey literature in research. (The term 'grey literature' also includes data published in a non-commercial form, such as a conference proceeding.) These data are collected by the Government organisations and others, generally for their self-use or office record.</li> <li>Unpublished data is useful mainly in secondary research , such as literature reviews and systematic reviews. It provides pointers to new research and perhaps also research paths to avoid. Preprints are a growing form of unpublished data these days and have proved very useful in guiding research in critical areas such as Covid -19.published source of data are government publications, semi-government publications, publications of research institutions, international publications etc.</li> <li>(a) Data collected from unpublished/published are called</li> <li>(b) In case of a answer are to be written by the enumerators specifically hired for the purpose.</li> <li>(c) publish data relating to education, health , births and death.</li> <li>(d) 76<sup>th</sup> round of NSSO was on</li> </ul>	4
62	Differentiate between primary and secondary data. Illustrate your answer with example.	4
63	Give one example each from (a)sample (b)population (c)sampling error (d)Non-Sampling error	4
64	Which of the following methods give better result and why? (a)Census (b)Sample	4
65	Read the passage carefully and answer the questions on the basis of the same.Questionnaire should be relevant to the survey objectives. Questionnaires therein should be arranged in smooth and logical flows to facilitate respondents recall. Wordings should be appropriate, specific and precise, avoiding leading and loaded terms or descriptions. The questionnaires should be tested on prospective respondents before they are finalized for use in surveys. Sensitive questions largely explain respondents reluctance to give truthful answers, and	6

	<ul> <li>that gives rise to a major source of biased results. For questions that might elicit social disapproval ,statistically sophisticated approaches such as randomized response techniques may have to be considered.</li> <li>Q1-While framing a questionnaire what kind of precautions are to be taken?</li> <li>Q2-What are the qualities of a good questionnaire?</li> </ul>	
66	Q-What are the advantages and disadvantages of collecting primary data by (a)Personal interview (b)Mailing questionnaire	6
67	Q-Why is sample survey method preferred over census survey method? Give example where census method is inevitable and where sample methods are suitable to collect data.	6
68	<ul> <li>"Stratified sampling is a sampling method using proportional representation.</li> <li>The population is divided into smaller subgroups (strata) with the number taken from each subgroup proportional the size of the subgroup.</li> <li>The term stratification means to arrange something into groups.</li> <li>The larger the group, the more data entries will exist in the sample for that group.</li> <li>To find a stratified sample we need to know how many data entries are in each subgroup and the total sample size.Stratified sampling determines the number of items of data in each subgroup and so it requires a secondary sampling method to select the individual items of data.</li> <li>This is usually through using a simple random sampling technique (using a random number generator). This is why a stratified sample can also be called a stratified random sample"</li> <li>1) What is the use case of stratified sampling?</li> <li>2) Is stratified sample of a stratified random sample situation?</li> <li>4) What are the limitations of stratified sampling?</li> <li>5) Is stratified sampling non-probability sampling?</li> <li>6) Is stratified sampling method biased?</li> </ul>	6
69	<ul> <li>"As the name suggests, random sampling is one where the individual units from the population(samples) are selected at random. The government wants to determine the impact of the rise in petrol price on the household budget of a particular locality. For this, a representative sample of 30 households of that area are written on paper and mixed, then 30 names to be interviewed are selected one by one.</li> <li>In Random sampling, every individual has an equal chance of being selected. In the above example, all 300 sampling units of the population have a chance of being included in the sample of 30 units and hence the sample, such drawn, is a random sample. This is also called the lottery method."</li> <li>1) One of the most useful samplings is random sampling due to the?</li> </ul>	6

	F	,
	<ul> <li>a) The nature is economical</li> <li>b) More accurate in comparison to others</li> <li>c) Free from personal biased</li> <li>d) All of the above</li> </ul>	
	<ul> <li>2) Out of these, which needs the small size sample to see its efficiency?</li> <li>a) Quota sampling</li> <li>b) Cluster sampling</li> <li>c) Simple random sampling</li> <li>d) None of the above</li> </ul>	
	<ul> <li>3) The sampling that is based on probability, that is equal, is known as</li> <li>4) The method of drawing a is the fishbowl drawing.</li> <li>5) Sample is known to be the subset of? <ul> <li>a) Population</li> <li>b) Data</li> <li>c) Set</li> <li>d) Information</li> </ul> </li> </ul>	
	<ul> <li>6) Which of these is an e example of probability sampling? <ul> <li>a) Lottery method</li> <li>b) Quota sampling</li> <li>c) Purposive sampling</li> <li>d) Judgemental sampling</li> </ul> </li> </ul>	
70	Census of India is a decennial publication of the Government of India. It is published by the Registrar General and Census Commissioner, Under Ministry of Home Affairs, Government of India. It is a very comprehensive source of secondary data. It relates to population size and various aspects of demographic changes in India. Under the Ministry of Home Affairs, Government of India. It may be of historical interest that though the population census of India is a major administrative function; the Census Organisation was set up on an ad-hoc basis for each Census till the 1951 Census. The Census Act was enacted in 1948 to provide for the scheme of conducting population census with duties and responsibilities of census officers. The Government of India decided in May 1949 to initiate steps for developing systematic collection of statistics on the size of the population, its growth, etc., and established an organisation in the Ministry of Home Affairs under Registrar General and ex-Officio Census Commissioner, India.	6
	(1) Data originally collected in the process of investigation are known as(Primary data/ Secondary data).	
	(2) Post independence, the first census of India was conducted in (1949/ 1951).	

<ul> <li>3) Data collected on religion from census reports are: <ul> <li>a) Secondary data</li> <li>b) Primary data</li> <li>c) Either a and b</li> <li>d) Sample data</li> </ul> </li> <li>4) Identify the type of the following question: If plastic bags are only 5% of our garbage, should it be banned? <ul> <li>a) Ambiguous</li> <li>b) Leading</li> <li>c) Double negative</li> <li>d) None of the above</li> </ul> </li> <li>5) The data collected on the height of a group of students after recording their heights with measuring tape are</li> <li>a) Primary data</li> <li>b) Continuous data</li> <li>c) Discrete data</li> <li>d) Secondary data</li> </ul>	
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b) Continuous data (c) Discrete data (d) Secondary data	
<ul><li>(c) Discrete data</li><li>(d) Secondary data</li></ul>	
(d) Secondary data	
•	
(6) Direct personal investigation suffers from	
a) Personal bias	
b) Excessive expenses	
(c) Time consuming	
(d) All the above	
Which of the following methods give better results and why? (a)Census (b)Sample	6
As a Project Leader you have start a project work in the class. Project work is to be done in the group of five. In order to ensure inclusivity which sampling	6
	6
	b)Sample As a Project Leader you have start a project work in the class. Project work is to

	<ul> <li>What is the population size and sample size?</li> <li>b) Identify the method of sampling that would be most suitable for the selection of organising committee?</li> <li>c)Define the method.</li> <li>d)How many students will be selected from commerce, science and humanities,</li> </ul>	
74	as a part of organising committee? Show the calculation	6
74 75	State merits and demerits of mailing questionnaire method of collecting data.Give the advantages of Sample Method over Census Method.	6
76	Write the methods of collecting Secondary Data. Explain it.	6

## <u>ANSWER</u>

1	Statistical Enquiry refers to an investigation on a topic by any agency wherein relevant quantitative information is collected.
2	'Data' is a 'tool', which helps us to understand and analyses the problems by providing information.
3	Primary Data
4	Questionnaire is filled by the respondent, while a schedule is filled by the investigator.
5	Due to the advent of COVID -19 pandemic, Census 2021 was postponed until further orders as per Ministry of Home Affairs.
6	Absolute Error = Actual Value – Estimated Value
	Relative Error = (Actual Value – Estimated Value) / Estimated Value
7	Absolute Error = Actual Value – Estimated Value = $75 \text{ kg} - 74.5 = 0.5 \text{ kg}$ .
	Relative Error = (Actual Value – Estimated Value) / Estimated Value = (75 – 74.5) / 75 =
	0.0066
8	False.
9	Ι
10	(i). Expensive ; (ii). Time Consuming.
11	Secondary data
12	Secondary data
13	Sample data
14	Socio-economic data
15	(iii)A and R are true but R isn't the correct explanation of A
16	Are you dependent only on rainwater for irrigating the land ?
17	Heterogeneous population and random sampling
18	Mailing questionnaire as it is cheapest and easiest way of collecting primary data
19	Population=200
	Sample=75
20	Sampling error
21	Variable
22	I suggest, the manager should consider that(i) The trade union leader is honest, experienced and unbiased.

	(ii) Respect to workers' views, truth ,honesty etc. was maintained by the trade union leader.	
23	Primary data	
24	Secondary data	
25	Poor Q	
	How do you like the flavour of this high-quality tea?	
	Good Q	
	How do you like the flavour of this tea?	
26	1. What is your view about globalisation?	
	What does a student want to do after college?	
27	Two way answers like yes or no, multiple choice questions	
28	Pilot survey	
29	This conveys that Indian society is basically a male – dominated society.	
30	No, this is ethically and morally incorrect. Drafting a questionnaire requires a great deal of	
	responsibility. Questions which offend personal and religious sentiments of the respondents	
	should be avoided.	
31	a	
32	b	
33	b	
34	c	
35	Respondent, Enumerator	
36	Primary data, Indirect oral investigation	
37	Enumeration, Estimation	
38	b	
39	c	
40	a	
-10	a	
41	1. survey by a company before launching a new product in the market	
	2. survey by scientists before introducing a new medicine	
	3. survey by a publisher before publishing a new book	
42	1. questions which is simple and specific to the objectives	
	2.questions with proper sequence and clear instructions	
	3.Only objective or mcq questions to be framed	
43	1. Selecting the population size	
45	2. Deciding the type survey census or sample survey	
	3.Selecting the method of collection of data	
44	(a) It is an expensive method.	
	(b) It need expert interviewers	
	(c) It takes more time to complete the survey.	
	()	
45	The name of the method is Census Method.	
	Qualities of census method	
	1. This method collects data from each and every unit.	
	2. This method gives authentic results.	
	3. There are less chances of biasedness.	
46	Random sampling technique is used for exit polls. A random sample of voters who exist at the	
	polling booths are asked for whom they voted. On the basis of data collected, the prediction	
	is made.	
47	Information collected is an example of primary data.	

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	II. Indirect Personal Interview: an indirect personal enquiry is conducted to get necessary
	information from indirect sources.
	III. Telephonic Interview: the investigator asks questions over telephone, via call or sms and
	even online.
	IV. Information from Correspondents: here, local agents or correspondents are trained and
	appointed in the different part of the investigation area to collect the information.
54	<ul> <li>Mailed Questionnaires: questionnaires (a list of questions), along with a covering letter, are sent to informants by post, with request to answer and return it within a specified time.</li> <li>One should use the secondary data with care and full precaution and should not accept them at</li> </ul>
	their face value as they may be suffering from the following limitations: 1. Data may not have
	been collected by following the proper procedure.
	2. Data collected may not be suitable for the required purpose. The information which was
	collected on a particular base may not be suitable and relevant to an enquiry.
	3. The data may have been influenced by biased investigation or personal prejudices.
	<ul><li>4. It may be obsolete and not suitable to the present period.</li></ul>
	<ol> <li>It may not satisfy a reasonable standard of accuracy.</li> </ol>
	<ul><li>6. Collected data may not cover the full period of investigation.</li></ul>
55	NSSO is a government organization under the Ministry of Statistics and Programme
	Implementation. The National Sample Survey (NSS), initiated in the year 1950, is a nationwide,
	large scale continuous survey operation conducted in the form of successive rounds. It was
	established on the basis of a proposal from Prof. P.C. Mahalanobis to fill up data gap for socio-
	economic planning and policy making through sample surveys. On March 1970, the NSS was
	reorganized and known as the National Sample Survey Office.
	The NSSO headed by a Director General Chief Executive Officer has four divisions, namely, Survey Design and Research Division (SDRO Field Operation Division (FOD), Data Processing Division (DPD) and Coordination Publication Division (CPD). A Deputy Director General heads each division except FOD. An Addition Director General heads FOD.
56	Quota samplingIn this method, population is divided into different groups or classes called as quotas.These quotas are created on the basis of their different characteristics.Number of sample units to be picked from each quota is also fixed.This method is simple and least expensive.This method is too much based on the personal biasness of the investigator.
57	<ul> <li>Technique used would be Deliberate sampling.</li> <li>In this method sample is selected from the population based on the purpose of the investigation.</li> <li>Sample is selected deliberately by the investigator which in his opinion is considered as best to represent the population.</li> <li>All units of population do not have equal chance to get selected</li> </ul>
	It is simple technique of sampling

58	The method is Direct Personal Investigation.
	There is direct contact between Investigator and Respondents
	Investigator approaches the respondents and information is collected directly and personally
	by the investigator through oral discussions.
	Field of investigation is small.
	Greater degree of originality is required.
	Secrecy in information is to be kept.
59	(a) The questionnaire should not be too long.
	(b) The questionnaire should be easy to understand.
	(c) The questionnaire should be arranged in an order.
	(d) The series of questions should move from general to specific.
	(")
60	1. A good sample is generally smaller than a population.
	2. It provides reasonable accuracy.
	3. A good sample provide information is less time
	4. A good sample provides information at a low cost.
61	(a) secondary data
	(b) schedule
	(c) Semi-Government Publication
	(d) Persons with disabilities and drinking water
62	1. Data which are collected directly from the field /source is called primary data but data which
	are already collected by one party are used by another party for some purpose are called
	secondary data
	2. primary data are focussed but secondary data are not original and needs adjustment
	3. the sources of primary data are surveys, observations and experiments while that of
	secondary data are internal records, government publications etc
63	1. Sample-Blood sample taken by pathology labs
	2.census-population data collected by NSSO
	3.Sampling error-picking a sample from the telephone directory may have erroneous inclusion
	because some people may have shifted to other cities.
	4.Non sampling error-If a person is counted twice in a survey.
64	Suitability of census survey and sample survey may depend upon the nature of population and
	degree of accuracy sought.
	1. census survey is better when the area under investigation is small
	2. census survey is better when data required is authentic, original and important
	While
	1. sample survey is better when the area under investigation is large
	2. sample survey is better when items of the universe are homogeneous
65	Precautions taken
	1.keep it short and simple
	2. avoid double barrelled questions
	3. avoid negatives or double negatives
	4. Don't assume respondents are experts
	Good Qualities
	1.limited no of questions
	2. questions should be in proper order
	3.No personal questions
	4. Avoid calculation

66	Personal interview method
	Advantages
	1. provides good response rate
	2. provides greater opportunity to observe the behaviour and attitude of the respondent
	Disadvantages
	1. Individual biasness
	2. decision hesitancy
	Mailing questionnaire
	Advantages
	1.economical
	2.wide coverage
	Disadvantages
	1.validity or reliability is low
	2. poor or late responses
67	Sample survey is preferred over census survey because it reduces cost both monetary terms
	and staffing requirements. It reduces time needed to collect and process the data and produce
	results as it requires a smaller scale of operation
	Whereas Census or complete enumeration method is inevitable where detailed information
	about the respondent is highly necessary or that of the information is needed to be original
	from the point of view of framing policies like socio-economic data are required by the
	government or census survey.
68	1) Stratified random sampling is typically used by researchers when trying to evaluate
	data from different subgroups.
	2) Yes, stratified sample is obtained by taking samples from each stratum or sub-
	group of a population and within each stratum selecting sites using an
	independent random sample
	3) Let's say 100 (N <sub>h</sub> ) students of a school having 1000 (N) students were asked
	questions about their favorite subject. It's a fact that the students of the 8th
	grade will have different subject preferences than the students of the 9th grade,
	so different strata will be made and random selection from each strata.
	4) 1) the selection of appropriate strata for a sample may be difficult.
	2) A second disadvantage is that arranging and evaluating the results is more
	difficult compared to a simple random sampling.
	5) No, The selected sample from different strata is combined to have a single
	sample. Stratified sampling is the technique of probability sampling
	This method ensures that each subgroup is a fair representation of the entire, and that your
	sample is not biased towards any particular characteristic.
69	1) All of the above
	2) Simple random sampling
	3) Simple random sampling
	4) Random sample
	5) Population
	6) Lottery method
70	1) Primary data
	2) 1951
	3) Secondary data
	4) Leading question
	5) Primary data
	6) All of the above

71	Both the methods have their own m	erits and demerits. The usage of the m	nethod depends on		
	the nature and purpose of investigation.				
	Census Method	Sample Method	]		
	Information is collected from	Information is collected from a			
	each and every unit of population	smaller group of population and the results are then generalised for all.			
	This applicable when area of investigation is small.	This is applicable when area of investigation is large			
	This method gives accurate and reliable results	This method may not be reliable and accurate.			
	This is expensive in terms of	This is less expensive in terms of			
	time, efforts and money	time, efforts and money.			
72	This method is used when populatio It is economical in terms of time, eff It is time saving It is possible when area of investigat	forts and money tion is large.	the sample		
73	<ul> <li>(a) Population size=500 and Sample size=10</li> <li>Stratified / Mixed sampling—It is a combination of random and deliberate sampling.</li> <li>While the Strata in the population are created on the basis of purpose of investigation. Sample units from the Strata are then selected randomly.</li> <li>No. of students selected=Group size/Population size x Sample size</li> <li>No. of students selected from science= 100/500x10=2 students</li> <li>No. of students selected from commerce=250/500x10=5 students</li> <li>No. of students selected from humanities=150/500 x 10=3 students</li> </ul>				
74	Under mailing questionnaire method	od, a list of questions pertaining to by mail with a request to complete ar	C		

	data. The informants write the answers against the questions and return the completed
	questionnaires to the investigator.
	Merits:
	(1) Less expensive: It is relatively less expensive than other methods.
	(2) Wider area: It is the only method where the field of investigation is very vast and the
	information is spread over a wide geographical area.
	(3) No possibility of personal bias: There is any room for personal bias and prejudice on the
	part of the investigators.
	(4) Originality: This method is original and fairly reliable, because the information is
	supplied by the concerned persons themselves.
	Demerits:
	(1) Limited use: This method cannot be used when the informants are illiterate or
	uneducated.
	(2) Low response rate: It involves some uncertainty about the response. In many cases, the
	respondents do not return the questionnaire.
	(3) Lack of flexibility: This method lacks flexibility because, when questions are not
	properly replied, these cannot be changed to obtain the required information.
	(4) Not accurate data: The information supplied by the informants may not be correct and it
	may be very difficult to verify the accuracy.
75	Sample method has the following merits or advantages over the census method :
	(i) Less time-consuming: Since the sample is a study of the part of the population, considerable
	time is saved when a sample survey is carried out. Time is saved not only in collecting data but
	also in processing it.
	(ii) Less cost: Under sample method, lot of expenses is saved in terms of money and labour not
	only in the collection of data but also in the administration, transport and training etc. This is
	because in sample method, a part of the population is studied and examined to arrive at the
	desired conclusion.
	(iii) Greater Scope: In certain types of enquiry, highly trained personnel or specific equipment
	are needed to obtain and analyses the data. In such cases, sampling methods are more suitable.

	(iv) More detailed information: Since the sample method saves time and money, it is possible to collect more detailed information in a sample survey.
76	There are two main sources of collecting Secondary Data, these are:
	1. Published Sources; and
	2. Unpublished Sources.
	Published Sources:
	Some of the published sources of secondary data are:
	(i) Government Publications: Ministries of the Central and State Governments in India
	publish a variety of Statistics as their routine activity. As these are published by the
	Government, data are fairly reliable.
	(ii) Semi-Government Publications: Semi-Government bodies (such as Municipalities
	and Metropolitan Councils) publish data relating to education, health, births and deaths.
	These data are also fairly reliable and useful.
	(iii) Reports of Committees and Commissions: Committees and Commissions appointed
	by the Government also furnish a lot of statistical information in their reports. Finance
	Commission, Monopolies Commission, Planning Commission are some of the notable
	commissions in India which supply detailed statistical information in their reports.
	(iv) Publications of Trade Associations: Some of the big trade associations, through their
	statistical and research divisions, collect and publish data on various aspects of trading activity.
	For example, Sugar Mills Association publishes information regarding sugar mills in India.
	(v) Publications of Research Institutions: Various universities and research institutions publish
	information as findings of their research activities. In India, for example, Indian Statistical
	Institute, National Council of Applied Economic Research publish a variety of statistical data as
	a regular feature.
	Unpublished Sources:
	There are some unpublished secondary data as well. These data are collected by the government organizations and others, generally for their self-use or office record. These data are not published. This unpublished numerical information is used as secondary data.