that there are several methods of collecting primary data, particularly in surveys and descriptive researches. Important ones are: (i) observation method, (ii) interview method, (iii) through questionnaire (iv) through schedules, and (v) other methods which include (a) warranty cards; (b) distributor audits; (c) pantry audits; (d) consumer panels; (e) using mechanical devices; (f) through projective techniques; (g) depth interviews, and (h) content analysis. We briefly take up each method separately

Observation Method

The observation method is the most commonly used method specially in studies relating to behavioural sciences. In a way we all observe things around us, but this sort of observation is not scientific observation. Observation becomes a scientific tool and the method of data collection for the researcher, when it serves a formulated research purpose, is systematically planned and recorded and is subjected to checks and controls on validity and reliability. Under the observation method, the information is sought by way of investigator's own direct observation without asking from the respondent. For instance, in a study relating to consumer behaviour, the investigator instead of asking the brand of instance, in a study relating to consumer behaviour, the investigator instead of asking the information method is that subjective bias is eliminated, if observation is done accurately. Secondly, the information is obtained under this method relates to what is currently happening; it is not complicated by either the obtained under this method relates to what is currently happening; it is not complicated by either the villingness to respond and as such is relatively less demanding of active cooperation on the part of particularly suitable in studies which deal with subjects (i.e., respondents) who are not capable of particularly suitable in studies which deal with subjects (i.e., respondents) who are not capable of particularly suitable in studies which deal with subjects (i.e., respondents) who are not capable of particularly suitable in studies which deal with subjects (i.e., respondents) who are not capable of particularly suitable in studies which deal with subjects (i.e., respondents) who are not capable of particularly suitable in studies which deal with subjects (i.e., respondents) who are not capable of particularly suitable in studies which deal with subjects (i.e., respondents) who are not capable of particularly suitable in studies which deal with subjects (i.e., respondents) who are not capable of particularly

giving verbal reports of their rectings for one relation. Firstly, it is an expensive method. Secondly, However, observation method has various limitations. Firstly, it is an expensive method. Secondly, the information provided by this method is very limited. Thirdly, sometimes unforeseen factors may interfere with the observational task. At times, the fact that some people are rarely accessible to direct observation creates obstacle for this method to collect data effectively.

While using this method, the researcher should keep in mind things like: What should be observed? How the observations should be recorded? Or how the accuracy of observation can be ensured? In case the observation is characterised by a careful definition of the units to be observed, the style of recording the observed information, standardised conditions of observation and the selection of pertinent data of observation, then the observation is called as <u>structured observation</u>. But when observation is to take place without these characteristics to be thought of in advance, the same is termed as <u>unstructured observation</u>. Structured observation is considered appropriate in descriptive studies, whereas in an exploratory study the observational procedure is most likely to be relatively unstructured.

We often talk about participant and non-participant types of observation in the context of studies, particularly of social sciences. This distinction depends upon the observer's sharing or not sharing the life of the group he is observing. If the observer observes by making himself, more or less, a member of the group he is observing so that he can experience what the members of the group experience, the observation is called as the *participant observation*. But when the observer observes as a detached emissary without any attempt on his part to experience through participation what others feel, the observation of this type is often termed as *non-participant observation*. (When the observation.)

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There are several merits of the participant type of observation: (i) The researcher is enabled to record the natural behaviour of the group. (ii) The researcher can even gather information which could not easily be obtained if he observes in a disinterested fashion. (iii) The researcher can even verify the truth of statements made by informants in the context of a questionnaire or a schedule. But there are also certain demerits of this type of observation viz., the observer may lose the objectivity to the extent he participates emotionally; the problem of observation-control is not solved; and it may narrow-down the researcher's range of experience.

Sometimes we talk of controlled and uncontrolled observation. If the observation takes place in the natural setting, it may be termed as uncontrolled observation, but when observation takes place according to definite pre-arranged plans, involving experimental procedure, the same is then termed controlled observation. In non-controlled observation, no attempt is made to use precision instruments. The major aim of this type of observation is to get a spontaneous picture of life and persons. It has a tendency to supply naturalness and completeness of behaviour, allowing sufficient time for observing jt. But in controlled observation, we use mechanical (or precision) instruments as aids to accuracy and standardisation. Such observation has a tendency to supply formalised data upon which generalisations can be built with some degree of assurance. The main pitfall of non-controlled observation is that of subjective interpretation. There is also the danger of having the feeling that we know more about the observed phenomena than we actually do. Generally, controlled observation takes place in various experiments that are carried out in a laboratory or under controlled conditions, whereas uncontrolled observation is resorted to in case of exploratory researches.

Interview Method

The interview method of collecting data involves presentation of oral-verbal stimuli and reply in terms of oral-verbal responses. This method can be used through personal interviews and, if possible, through telephone interviews.

(a) Personal interviews: Personal interview method requires a person known as the interviewer asking questions generally in a face-to-face contact to the other person or persons. (At times the interviewee may also ask certain questions and the interviewer responds to these, but usually the interviewer initiates the interview and collects the information.) This sort of interview may be in the form of direct personal investigation or it may be indirect oral investigation. In the case of direct personal investigation the interviewer has to collect the information personally from the sources concerned. He has to be on the spot and has to meet people from whom data have to be collected. This method is particularly suitable for intensive investigations. But in certain cases it may not be possible or worthwhile to contact directly the persons concerned or on account of the extensive scope of enquiry, the direct personal investigation technique may not be used. In such cases an indirect oral examination can be conducted under which the interviewer has to cross-examine other persons who are supposed to have knowledge about the problem under investigation and the information, obtained is recorded. Most of the commissions and committees appointed by government to carry on investigations make use of this method.

The method of collecting information through personal interviews is usually carried out in a structured way. As such we call the interviews as structured interviews. Such interviews involve the use of a set of predetermined questions and of highly standardised techniques of recording. Thus,

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the interviewer in a structured interview follows a rigid procedure laid down, asking questions in a form and order prescribed. As against it, the *unstructured interviews* are characterised by a flexibility of approach to questioning. Unstructured interviews do not follow a system of pre-determined questions and standardised techniques of recording information. In a non-structured interview, the interviewer is allowed much greater freedom to ask, in case of need, supplementary questions or a times he may omit certain questions if the situation so requires. He may even change the sequence of questions. He has relatively greater freedom while recording the responses to include some aspects and exclude others. But this sort of flexibility results in lack of comparability of one interview with another and the analysis of unstructured responses becomes much more difficult and time-consuming also demand deep knowledge and greater skill on the part of the interviewer. Unstructured interview of however, happens to be the central technique of collecting information in case of exploratory or however, happens to be the central technique of collecting information in case of exploratory or however, happens to be the central technique of collecting information in case of exploratory or however, happens to be the central technique of collecting information in case of exploratory or however, happens to be the central technique of collecting information in case of exploratory or however, happens to be the central technique of collecting information in case of exploratory or however, happens to be the central technique of collecting information in case of exploratory or however, happens to be the central technique of collecting information in case of exploratory or however, happens to be the central technique of the interviewer.

We may as well talk about focussed interview, clinical interview and the non-directive interview. We may as well talk about focussed interview, clinical interview and the non-directive interview. Focussed interview is meant to focus attention on the given experience of the respondent and its effects. Under it the interviewer has the freedom to decide the manner and sequence in which the questions would be asked and has also the freedom to explore reasons and motives. The main task of questions would be asked and has also the freedom to confine the respondent to a discussion of issues the interviewer in case of a focussed interview is to confine the respondent to a discussion of issues the interviewer in case of a focussed interview is to confine the respondent to a discussion of issues the interviewer in case of a focussed interview is to confine the respondent to a discussion of issues the interviewer in case of a focussed interview is to confine the respondent to a discussion of issues the interviewer in case of a focussed interview is to confine the respondent to a discussion of issues the interviewer in case of a focussed interview is to confine the respondent to a discussion of issues the interviewer in case of a focussed interview is to confine the respondent of with which he seeks conversance. Such interviews are used generally in the development of hypotheses and constitute a major type of unstructured interviews. The *clinical interview* is concerned hypotheses and constitute a major type of unstructured interviews. The *clinical interview* is concerned method of eliciting information under it is generally left to the interviewer's discretion. In case of *non-directive interview*, the interviewer's function is simply to encourage the respondent to talk *non-directive interview*, the interviewer's function is simply to encourage the respondent to talk about the given topic with a bare minimum of direct questioning. The interviewer often acts as a catalyst to a comprehensive expression of the respondents

Despite the variations in interview-techniques, the major advantages and weaknesses of personal interviews can be enumerated in a general way. The chief merits of the interview method are as follows:

- (i) More information and that too in greater depth can be obtained.
- (ii) Interviewer by his own skill can overcome the resistance, if any, of the respondents; the interview method can be made to yield an almost perfect sample of the general population.
- (iii) There is greater flexibility under this method as the opportunity to restructure questions is always there, specially in case of unstructured interviews.
- (iv) Observation method can as well be applied to recording verbal answers to various questions.
- (v) Personal information can as well be obtained easily under this method.
- (vi) Samples can be controlled more effectively as there arises no difficulty of the missing returns; non-response generally remains very low.
- (vii) The interviewer can usually control which person(s) will answer the questions. This is not possible in mailed questionnaire approach. If so desired, group discussions may also be held.

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- (viii) The interviewer may catch the informant off-guard and thus may secure the most spontaneous reactions than would be the case if mailed questionnaire is used.
- (ix) The language of the interview can be adopted to the ability or educational level of the person interviewed and as such misinterpretations concerning questions can be avoided.
- (x) The interviewer can collect supplementary information about the respondent's personal characteristics and environment which is often of great value in interpreting results.

But there are also certain weaknesses of the interview method. Among the important weaknesses, mention may be made of the following:

- (i) It is a very expensive method, specially when large and widely spread geographical sample is taken.
- (ii) There remains the possibility of the bias of interviewer as well as that of the respondent; there also remains the headache of supervision and control of interviewers.
- (iii) Certain types of respondents such as important officials or executives or people in high income groups may not be easily approachable under this method and to that extent the data may prove inadequate.
- (iv) This method is relatively more-time-consuming, specially when the sample is large and recalls upon the respondents are necessary.
- (v) The presence of the interviewer on the spot may over-stimulate the respondent, sometimes even to the extent that he may give imaginary information just to make the interview interesting.
- (vi) Under the interview method the organisation required for selecting, training and supervising the field-staff is more complex with formidable problems.
- (vii) Interviewing at times may also introduce systematic errors.
- (viii) Effective interview presupposes proper rapport with respondents that would facilitate free and frank responses. This is often a very difficult requirement.

Pre-requisites and basic tenets of interviewing: For successful implementation of the interview method, interviewers should be carefully selected, trained and briefed. They should be honest, sincere, hardworking, impartial and must possess the technical competence and necessary practical experience. Occasional field checks should be made to ensure that interviewers are neither cheating, nor deviating from instructions given to them for performing their job efficiently. In addition, some provision should also be made in advance so that appropriate action may be taken if some of the selected respondents refuse to cooperate or are not available when an interviewer calls upon them.

In fact, interviewing is an art governed by certain scientific principles. Every effort should be made to create friendly atmosphere of trust and confidence, so that respondents may feel at ease while talking to and discussing with the interviewer. The interviewer must ask questions properly and intelligently and must record the responses accurately and completely. At the same time, the interviewer must answer legitimate question(s), if any, asked by the respondent and must clear any doubt that the latter has. The interviewers approach must be friendly, courteous, conversational and unbiased. The interviewer should not show surprise or disapproval of a respondent's answer but he must keep the direction of interview in his own hand, discouraging irrelevant conversation and must make all possible effort to keep the respondent on the track. (b) *Telephone interviews:* This method of collecting information consists in contacting respondents (b) *Telephone interviews:* This method of collecting information constraint part in industrial surveys, on telephone itself. It is not a very widely used method, but plays important part in industrial surveys, particularly in developed regions. The chief merits of such a system are:

1. It is more flexible in comparison to mailing method.

- 2. It is faster than other methods i.e., a quick way of obtaining information. 3. It is cheaper than personal interviewing method; here the cost per response is relatively l_{0_W}
- 4. Recall is easy; callbacks are simple and economical.
- 5. There is a higher rate of response than what we have in mailing method; the non-response 6. Replies can be recorded without causing embarrassment to respondents.
- 7. Interviewer can explain requirements more easily. 8. At times, access can be gained to respondents who otherwise cannot be contacted for one
- reason or the other.
- No field staff is required.
- 10. Representative and wider distribution of sample is possible.

But this system of collecting information is not free from demerits. Some of these may be

highlighted.

- 1. Little time is given to respondents for considered answers; interview period is not likely to exceed five minutes in most cases.
- 2. Surveys are restricted to respondents who have telephone facilities.
- 3. Extensive geographical coverage may get restricted by cost considerations.
- 4. It is not suitable for intensive surveys where comprehensive answers are required to various questions.
- 5. Possibility of the bias of the interviewer is relatively more.
- 6. Questions have to be short and to the point; probes are difficult to handle.

COLLECTION OF DATA THROUGH QUESTIONNAIRES

This method of data collection is quite popular, particularly in case of big enquiries. It is being adopted by private individuals, research workers, private and public organisations and even by governments. In this method a questionnaire is sent (usually by post) to the persons concerned with a request to answer the questions and return the questionnaire. A questionnaire consists of a number of questions printed or typed in a definite order on a form or set of forms. The questionnaire is mailed to respondents who are expected to read and understand the questions and write down the reply in the space meant for the purpose in the questionnaire itself. The respondents have to answer the questions on their own.

The method of collecting data by mailing the questionnaires to respondents is most extensively employed in various economic and business surveys. The merits claimed on behalf of this method are as follows:

1. There is low cost even when the universe is large and is widely spread geographically.

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