Assignment -01 1) a) According to Clifford woody, while the definition of Research Sel According to clifford woody, Research comprises defining and suffering problems, formulating hypothesis and suggested solutions; collecting, organising and evaluating data; making deductions and rueching conclusions to determine whether they hit the formulating hypothesis. 1b) Why the Research is most impostant to every one's life? Justify your views along with any one real time example obsumed in secent times. Everyone's life depends on recease to because it allows us to brooden own understanding of the world around us, discover new Knowledge, and make informed decisions. Research ausists us in addressing some of society's most presitical matters, such as improving public health and developing suistonble energy usources. The could-19 pandemic has recently highlighted the critical rule of ruleosch in own lives. Researchers from all over the world have morteed extremely head to better undurstand the visus, develop effective treatments, and develop effective vaccines. The sapid development of COVID-19 vaccines demonstrates the impostonce of suscesch in addring public health issues without Research, we would not have been able to develop such

effective hools to combat the pandemic.

Additionally, screensch helps individuals moke informed decisions about their own lives. 4

for examples:

Medical Research can help people mole choices about their health, such as whether to adopt a particular diet or engage in certain activities that can reduce the risk of developing certain illness . Scientific tueosch also plays a crucial role in shoping public policy, from environmental regulations to public health measures.

An Summary, receased is evential to own lives because it allows us to gain knowledge, address societal challenges, and make infromed decisions. The COUID-19 pandemic is a vivid illustration of the impostance of receased in addressing ungent public health issues.

20) Discuss the Objectives of Rueosch.

The purpose of receased is to discover answery to questions through the application of scientific procedures. The main aim of receased is to find out the feuth which is hidden and which has not been discovered as yet. Though each research shedy has its own specific purpose, we may think of receased objectives as falling into a number of following broad groupings.

1) To gain familiarity mith a phenomenon os to achieve new insights into it (studies with this object in view one termed as exploratory or

formulative research studies)

2) To posteroy accurately the characteristics of a posticulos individual, situation as a group (studies with this object in view are known as descriptive successful studies)

3) To determine the frequency with which .
something occurs or with which it is
associated with something else (shidies with
this object in view are known as diagnostic
research shidies)

b/w voriables (such as studies are known as hypothesis-testing successful studies)

methods and Methodology.

Rueosch Methods

\*) 9+ implies the methods employed by the Researcher to conduct research

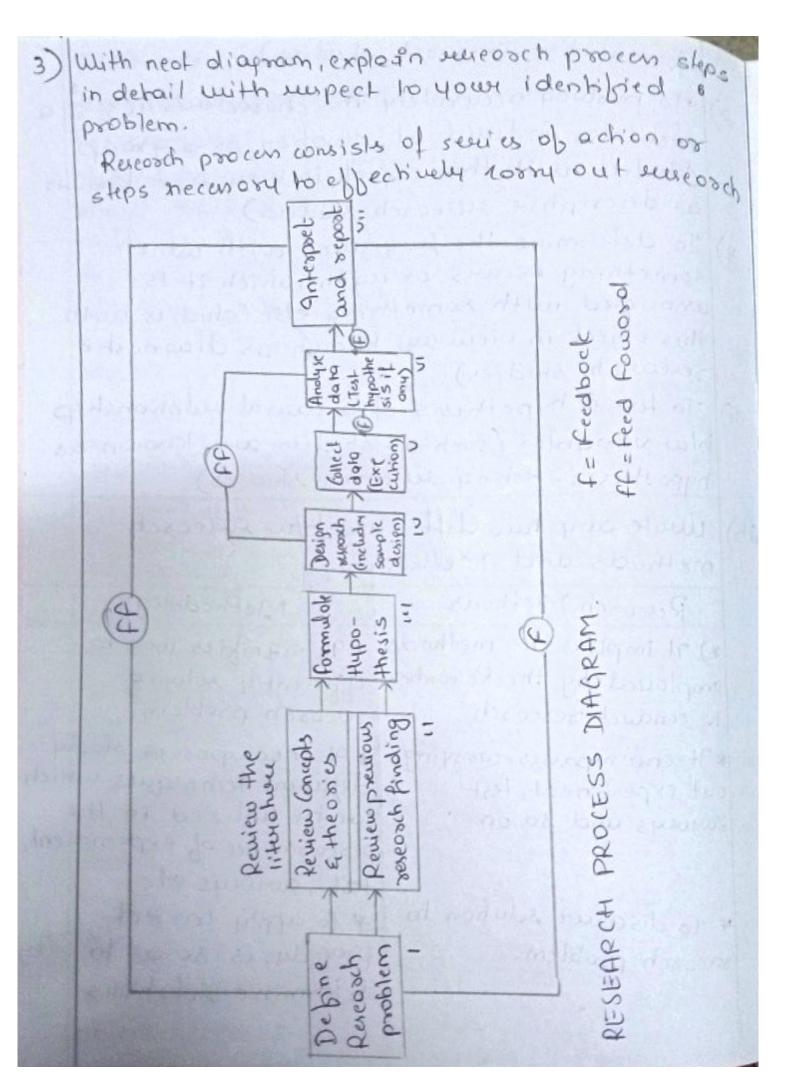
\* It encompanes corrying out experiment, test surveys and so on

\* to discover solution to rescorch problem.

Methodology

\* 9t signifies way to efficiently solving research problem.

\* 9+ encomposses sholy different techniques which can be utilized in the pesformence of experiment, test, surveys etc., \* To apply workect procedures so as to determine solutions.



The bollowing steps are included in Research process

i) formulating Research problem.

eventially how steps are involved in formulating the the suscosch problem, viz, understanding the problem the roughly, and suphrosing the same into meaningful terms from an analytical point of view. Initially the problem may be stoked in a broad general way & then the analytics.

2) Extensive Literahure swiney:

Once the problem is formulated, a brief summary of it should be well then down. At is compulsory too a research wasker wishing a thesis too a Ph.D. for this purpose, the abstrocking and indexing journals and published by unpublished bibliographics are the first place to go to. An this procen, it should be remembered that one source will lead to another

3) Development of working hypothesis.

After extensive literature survey, suspench ex should state in clear terms the working hypothesis or hypotheses

4) Preparing the rusearch design:

The researches will have to state the conceptual stemchure within which threath would be conducted. There are several threath designs, such as experimental from experimental hypothesis testing.

5) Defermining somple design

The suscooche's must decide the way of selecting a semple of what is populosly known as sample Design. There are several different types of sampling design we should choose according to our Rusoxh (ollecting the data.

There are several ways of collecting the appropriate

data which diffur considerably in context of money costs, hime and other resources at the displessal of the researcher.

Data can be collected by any one or more of following

> By observation -> Through schedules

-> through personal interwiew

-> Through Telephone intouview

-> By moiling of questionnosies

7) Execution of the project.

At is a very impostant step in the research process. 96 the execution of the project proceeds on correct lines, the deba to be collected would be adequate and dependable.

Anoly sis of dota.

Analysis of dota requires a number of closely deloted operations such as establishment of cotegory, the application of these celeponies to row do ha through roding, to bullotion & then duousing stotistical

9) Hupothesis tushing.

After anolysing the doha as shoted above, the seleoschesis in a position to fest the hypotheses. ib eny. he had formulated earlier.

co) Generalisation and anterpretations:

ab a hupothesis is tested & upheld several times, it may be possible for the rereascher to avoive at the real value of suscorch lies in its ability to averine at autoin generalisations

11) Preparation of the Repost of the thris: finally the succesches has to prepare the report of what has done by him her. Writing of report must be done with a real core keepsing in views ,

40) Ex post facto recevet.

In Social science and business research we awike often use the team IEx post focto receasch for descriptive rusearch studies. The main choracteristic of this method is that the researcher has no control own the voriables; he can only report what has happened as what is happening. Most ex post facto research projects are used for descriptive studies in which the research reeks to measure such items as for example, because of shopping, preferences of people or similar data.

Ex post-facto studies also include attempts by researchess to discover courses even when they cannot control the vosiobles. The methods of research whilized in descriptive successch are survey methods of all kinds, including compositive and correlational methods.

46) Essentials of a good questionoire.

A Good questionaire is an evential tool for gathering data from a sample of respondents. Here are some of the eventials element of a good questionaire.

\* closity and simplicity: A good quutionoire should be weithen in cleos and simple language that is easy for suspondents to undustrand.

Relevant questions: The question oire should contain

quishions that are selevent to the rereasch or the objectives of the study. The questions should no be designed to collect info that is necessary to auchieve the rereasch objectives

Stemetured question.

Question should be well stemethered and ordered
in a logical sequence. This mokes it easies for
respondents to understand the flow of the
questionnoire & to provide occurate answers

\* Neutral and unbiased questions
The questions should be neutral & unbiased,
This means that they should not be weither
in a way that influence the responses of the
respondents.

\* Validity and Reliability

the questions should be tested too validity and

seliability. This involves ensuring that the

questions are measuring what they are intended

to measure and that they consistently produce

the same results when used with different

sespondents.

\* Lungth:

The questionnoire should not be too long.

In summory, good questionnoire is enential for collecting reliable and volid dota in RM fIPR.

Differentiate the following types of Research.

Buantitative

At is the method used \*A method for developing a to generate numerical better understanding of

techniques such as logical, stohistical & Mothemotical techniques.

\* At employed en objective approach adota collection methods are experiments, surveys and observation expressed in numbers.

\* This method not involve a process-oriented inquiry

\*9+ is a conclusive

human & social sciences in undustrooding human behowiour & personolities

\* 9+ employs a subjective approach

\* Doha collection methods involved and interwiew, tocus groups, literature review, ethnography.

\* This method involves a process oriented inquiry.

at is one of the exploratory received

## Concephial

\* 9t is more focused on exploring theoretical frameworks

\*9+ includes literature seniew, throsofical enalyce & philosophical explosofions \*9+ involves

\* an this Rueoscher tries
to undustand the concept
or idea in brodul workert
without necessorily
londucting experiments

## Empirical

\* 9+ is more focused on collecting and analysing dota through observation and experimentations to test hypothesis & theorig \* examples: Receased include experiments, surveys, cose shalies & observational shalies \* 9+ is based on direct or indirect observations & experimentations and it is aimed at discovering or verifying the relationships blu variables

\* Scientific experiments and \* Scientific theories that organize the data observations give vise to 12 are conceptial empirical data.