

Hawthorne Studies:

(7)

This is the most important contribution to the OB field.

A series of studies conducted at Western Electric Company Works in Cicero. These were initially designed by engineers as a scientific management experiment.

These experiments had 2 groups:

1. Control group → Working under constant intensity.
2. Experimental group → Being exposed to various lighting intensities.

The individual O/P in experimental group would be directly related to intensity of light.

However they found that, as the level of light was increased, in experimental group, O/P for both groups increased.

As the level of light was ↓ in experimental group, productivity continued to ↑ in both groups. In fact, a productivity continued to decrease was observed in experimental group only when the level of light was reduced to the moonlit light level.

The engineers were not sure, but concluded that lighting intensity was not directly related to group productivity & that "something else" must have contributed to the results.

From 1927-30, Western Electric engineers & Harvard Professor Elton Mayo, encompassed numerous experiment in redesign of jobs, change in workday & work-week length, introduction of rest periods, individual v/s group wage. The results indicated that incentive plan had less effect on workers O/P than did group pressure, acceptance & security.

The researchers concluded that social norms & stds were the key determinants of individual work behaviour.

Conclusion of Mayo's studies:

- a) People's behavior & attitudes are closely related.
- b) Group factors significantly affect individual behavior.
- c) Group stds establish individual worker O/P.
- d) Money is less a factor in management of organization. determining O/P, than are group stds, group attitudes & security.

These conclusions led to new emphasis on human behavior factor in management of organization.

Today's managers usage of behavioral approach:

- Behavioral approach has largely shaped today's organizations
- From the way that managers design jobs to the way that they work with employee teams, to the way they communicate, behavioral approach is used.
- The early OB advocates proposed & conclusions have provided the foundation for current theories of motivation, leadership, group behavior & development & other behavioral approaches.

Quantitative approach:

The use of quantitative techniques to improve decision making is known as Quantitative approach & also known as management science. It involves applying statistics, optimization models, information models, computer simulations. Linear programming is a technique that managers use to improve resource allocation decisions. Critical-path scheduling analysis → more efficiently done work scheduling.

Economic order quantity model \rightarrow helps to determine optimal inventory levels.

Total quality management (or) TQM: management philosophy devoted to continual improvement & responding to customer needs & expectations.

Customer: It includes anyone who interacts with organization's product (or) services internally (or) externally.

It encompasses employee & supplier as well as ppl who purchase organization's goods (or) services.

1. Intense focus on the customer:

Customers \rightarrow outsiders \rightarrow buy organization's products/ service.

\rightarrow internal customers \rightarrow interact with & serve others in organization.

2. Concern for continual improvement: Quality can always be improved.

3. Process focused: focuses on work processes continually improved.

4. Improvement in the quality of everything the organization does. ⑧
- This relate to → final product → how organization handle deliveries,
 - rapidly & responds to complaints
 - how phones are answered.

5. Accurate measurement:

Statistic techniques refer to measure every critical variable in organization operations. These are compared against std to identify problems, trace them to their roots & eliminate their cause.

6. Empowerment of employees:

Use of quantitative approach in today's life:

This approach is being applied in queue management. This will translate the sales into strong implementation. This contributes directly to management decision making in areas of planning & control.

Managers make

- Budgeting
- Queuing.
- Scheduling
- Quality control.

They rely on quantitative techniques. Specialized software has made the use of these techniques.

Contemporary approach:

Management researchers began to look at what was happening in the external environment 'outside' the boundaries of organization.

Two contemporary management perspectives for this kind of approach:

1. Systems

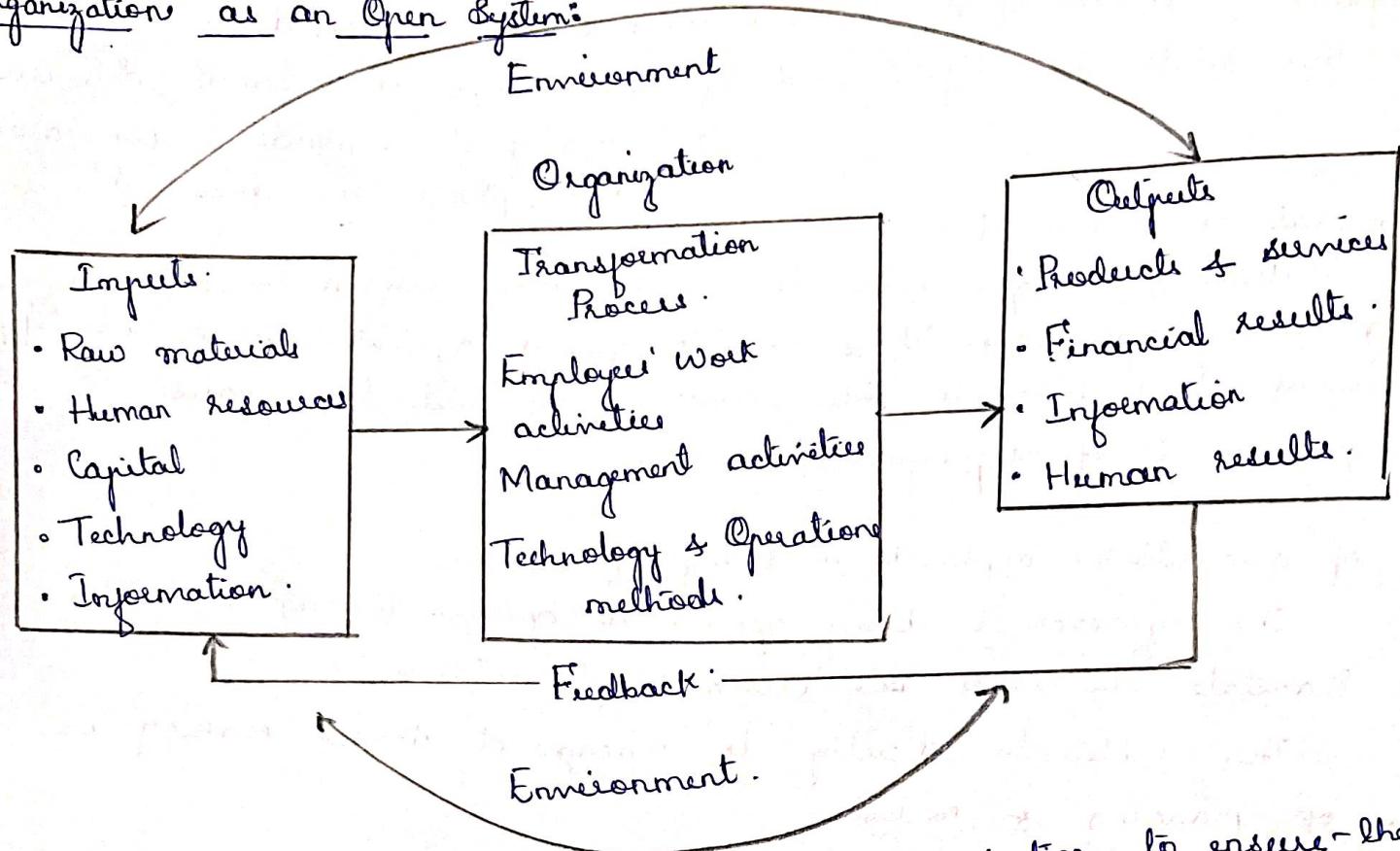
2. Contingency.

A system is a set of inter related & inter dependent parts arranged in a manner that produces a unified whole. The basic types of systems are:

a) Closed system:- are not influenced by & do not interact with their environment.

b) Open system:- are influenced by & do interact with their environment.

Organization as an Open System:



- Manages co-ordinate work activities in the organization, to ensure they all are working together to achieve the goal.
Eg: Even production team is efficient, the marketing team must anticipate changes & work with product development dept in creating products customers want.
- System approach: implies that the decision & action in one organizational area will affect other areas.
Eg: If purchasing dept does not acquire right quantity & quality of inputs, the production dept won't be able to do job.
- This approach recognizes that organizations are not self contained.
 - a) They rely on environment
 - b) They cannot survive if it ignores govt regulations, supplier relations.

Contingency approach:

A management approach that recognizes organizations as different, which means they face different situations (contingencies) & require different ways of managing.

1. Organization size: As size ↑, so the problems of coordination.

2. Routineness of task technology:

This requires organizational structure, leadership style & control systems, that differ from those required by customized / non-routine technologies.

3. Environmental Uncertainty:

The degree of uncertainty caused by environmental change influences the management process.

4. Individual Differences: It depends on desire for growth, autonomy & tolerance of ambiguity & expectations.

Managers must look at their situation & determine that "if" this is the way my situation is, "then" this is the best way to manage.

This approach helps us understand management because its stresses there are no simplistic or universal rules for managers to follow.

Managers as Decision-makers:

Organizations operate by people making decisions. A manager plans, organizes, staffs, leads & controls the team by exercising decisions. The effectiveness & quality of those decisions determine how successful manager will be. The entire decision-making process is dependent upon the right info being available to right person at right time.

All managers would like to make good decisions because they are judged on the outcome of those decisions.

The decision making process:

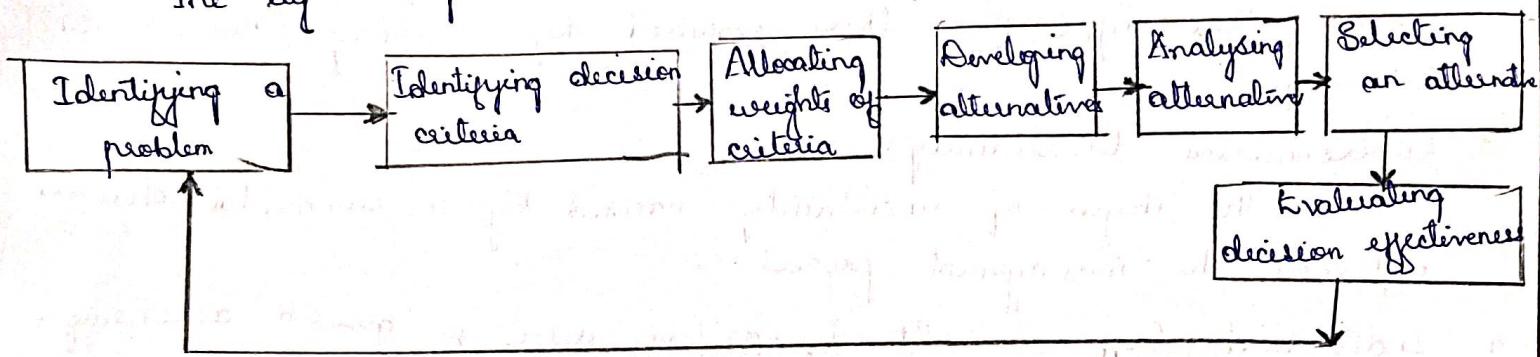
Managers at all levels & in all areas of organizations

make 'decisions': A choice among 2 (or) more alternatives → Decisions.

Top level managers make decision about their organization's goals.

Middle level managers about production schedule, product quality problems, pay raises & employee discipline.

The eight steps in decision making process.



Step 1: Identifying a problem:

- Every decision starts with a problem. A problem is an obstacle that makes it difficult to achieve a desired goal (or) purpose.
- Managers also have to be cautious not to confuse problems with symptoms of the problem. Effectively identifying problem is important.
- Problem identifying is subjective.

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- A manager who resolves the wrong problem perfectly is likely to perform just as poorly as the manager who doesn't recognize the problem.

Step 2: Identifying decision criteria:

Once a manager identifies the problem, they must identify the decision criteria, which are important/relevant to solving the problem.

Every decision maker has 6 criteria guiding their decisions, even if they are not explicitly stated.

Eg: New laptop for sales rep, the decision criteria include price, display quality, memory & storage capabilities, battery life, warranty.

Decision Criteria: Criteria that define what's important/relevant to resolving a problem.

Step 3: Allocating weights to the criteria. (10)
 The decision maker must weight the items in order to give them the correct priority in the decision. A simple way is to give most important criteria a highest weight & then assign weights to the rest using similar std.

Eq:	Memory & storage	10
	Battery life	8
	Carrying weight	6
	Warranty	4
	Display quality	3.

Step 4: Developing alternatives:

In the process, the decision maker requires to list viable alternatives that could resolve the problem. In this step, decision maker needs to be creative. Alternatives are only listed, not evaluated.

Eq:	Memory & Storage	Battery Life	Carrying Weight	Warranty	Display quality
	HP	10	3	10	8
	Sony	8	7	7	8
	Lenovo	8	5	7	10

Step 5: Analysing alternatives:

Once alternatives have been identified, a decision maker needs to evaluate each one. The above example shows the assigned value for the alternatives during the research, but not the weighting. When you multiply the each alternative by assigned weighed in Step-2 you get the weighed alternative.

The total score for each alternative, is the sum of its weighted criteria.

Eq:	Memory & Storage	Battery Life	Carrying Weight	Warranty	Display quality	Total
	HP	100	24	60	32	15
	Sony	80	56	42	32	21
	Lenovo	80	40	42	40	80

Step 6: Selecting an Alternative:

Choosing the best alternative (as) the one that generated the highest total in step 5.

Step 7: Implementing the alternative:

The decision will be put into action by conveying it to those affected & getting their commitment to it.

During implementation;

a. the people who must implement, should participate in the process.

b. Managers need to reassess the environment for any changes, if its a long-term decision.

Step 8: Evaluating decision effectiveness:

Last step involves evaluating the outcome of the decision, to see whether the problem is solved (or) not.

If evaluation shows the problem still exists, then manager need to assess what went wrong. The answer might lead to redo an earlier step (or) might even require starting the whole process over.

Manager making decision:

Decision making is particularly important to manager. Manager when they plan, organize, lead & control, they are called as decision makers.

The following 4 perspectives shows how manager make decisions:

1. Making decisions: Rationality: Assumption of Rationality:

a. A rational decision maker would be fully objective & logical.

b. The problem faced would be clear & unambiguous, & decision maker would have clear & specific goal & know all possible alternatives & consequences.

c). Making decisions rationally would consistently lead to (1) selecting the alternative that maximizes the likelihood of achieving that goal.

d). Decisions done by decision manager, must be in best interests of organization. These assumptions are not realistic.

In general, rational decision making describes the choice that are logical & consistent & maximize value.

Making decisions: Bounded Rationality:

Decision making that's rational, but limited (bounded) by an individual's ability to process information.

As managers can't possibly analyze all info of all alternatives, they settle, rather than maximize.

Satisfice means accept soln that are "good enough".

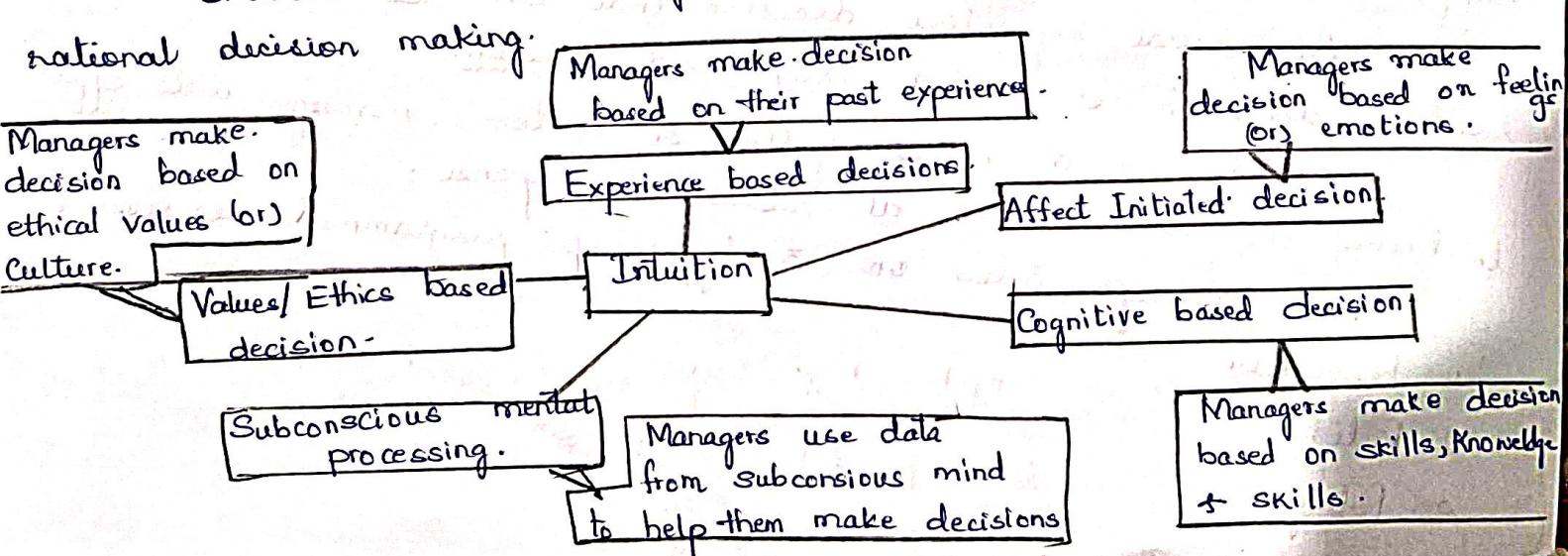
The decision making is also likely influenced by the organization's culture, internal politics, power consideration, & by a phenomenon called "escalation of commitment", i.e., increased commitment to a previous decision despite evidence that it may have been wrong.

Eg: The challenger space shuttle.

Making decisions: The role of Intuition:

Making decision on the basis of experience, feelings & accumulated judgement.

Intuitive decision making can complement both rational & bounded rational decision making.



- Making decisions: The role of evidence based management : [EBMgt].
The systematic use of the best available evidence to improve management practice.

EBMgt is quite relevant to managerial decision making. The

4 essential elements of EBMgt are:

- a) Decision makers expertise & judgement.
- b) External evidence that's been evaluated
- c) Opinions, preferences, & values of those who have stake in the decisions.
- d) Organizational internal factors such as context, circumstances & organizational members.

The key for managers is to recognize & understand the choice, as to which elements are most important & should be emphasized in making a decision.

Types of decisions:

Depending on the nature of the problem, a manager can use one of two different types of decisions.

Structured Problems & programmed decisions:

When the decision maker's goal is clear, the problem is familiar, & info about the problem is easily defined & complete. Such situations are called structured problems.
eg: customer returning purchased goods/items to a store, when supplier is late with important delivery.

An usual repetitive decision that can be handled by a routine approach is called Programmed decision.

Eg: When a drink is spilled on customer, manager will offer to home the coat cleaned at restaurants expense.

Here manager relies on 3 types of programmed decisions:

1. Procedure
2. Rule
3. Policy

Procedure: A series of sequential steps of a manager used to respond to a structured problem. The only difficulty is identifying the problem.

Rule: It is an explicit statement that tells a manager what can (or) cannot be done. Rules are frequently used because they're simple to follow & ensure consistency.

Eg: Rules about lateness & absenteeism permit supervisors to make disciplinary decision rapidly & fairly.

Policy: A guideline for making a decision. A policy establishes general parameters for the decision maker. It contains an ambiguous term that leaves interpretation up to decision maker.

Eg: a) Customer always comes first & should always be satisfied.
b) Employee wages shall be competitive within community stds.

Structured Problems & Non-programmed decisions:

Problems that are new (or) unusual & for which info is ambiguous (or) incomplete. is defined as Unstructured problems.

Non-programmed decision are unique & non-recurring &

involve custom made solⁿ.

Characteristic	Programmed decision	Unprogrammed decision
1. Type of problem	Structured	Unstructured.
2. Managerial level	Lower levels	Upper levels.
3. Frequency	Repetitive, routine	New, Unusual.
4. Information	Readily available	Ambiguous/incomplete.
5. Goals	Clear, specific	Vague.
6. Time frame for sol ⁿ .	Short	Relatively long.
7. Sol ⁿ relies on ...	Procedures, rules, policies	Judgement & creativity.

Decision making conditions:

Three different condⁿ, manager need to consider:

a) Certainty:

A situation in which manager can make accurate decision because all outcomes are known.

b) Risk:

A situation in which the decision maker is to estimate the likelihood of certain outcome.

c) Uncertainty:

A situation in which a decision maker has neither certainty nor reasonable probability estimate available.

An optimistic manager follows a ~~maximin~~ choice (maximizing the maximum possible payoff).

A pessimist will follow a ~~maximax~~ maximin choice (maximizing the min. possible payoff).

Decision making styles:

i. Linear - Non-linear thinking style people:

Linear thinking style is characterized by a person's preference for using external data & facts, & processing this info thru' rational logical thinking to guide decisions & actions.

Non-linear thinking style is characterized by a preference for internal source of information (feelings & intuition) & processing this info with internal insights, feelings & hunches to guide decisions & actions.

ii. Decision-Making Biases & Errors:

When managers making decision, they not only use their own particular style, but they may also use "rules of thumb" (or) heuristics.

Heuristics is rules of thumb that managers use to simplify the decision making. This will help make sense of complex, uncertain & ambiguous info.

When decision makers tend to make decisions, they have been identified to make 12 common decision errors & biases:

1. Overconfidence bias:

When managers tend to think they know more than they do (or) hold unrealistically positive views of themselves & their performance.

2. Immediate gratification bias:

Tend to want immediate rewards & to avoid immediate costs. For these individuals, immediate rewards/payoffs are more appealing than those with payoffs in future.

3. Anchoring effect:

This describes how managers fixate on initial info as a starting point & fail to adequately adjust for subsequent info.

4. Selective perception bias:

When managers selectively organize & interpret events based on their biased perceptions. This influences the info they pay attention to, problems they identify & alternatives they develop.

5. Confirmation:

Managers who seek out info that re-affirms their past choices & discount info that contradicts past judgement.

6. Framing bias:

When decision makers tend to select & highlight certain aspects of situation while excluding others. They distort what they see & create incorrect reference points.

7. Availability:

Tend to remember events that are most recent & vivid in their memory. It distorts to recall events in an objective manner & results in distorted judgement.

8. Representation:

When they assess the likelihood of an event based on how closely it resembles other events (or) sets of events.

9. Randomness:

It describes the actions of managers who try to create meaning out of random events.

10. Sunk Costs:

When decision makers forget that current choices cannot correct the past.

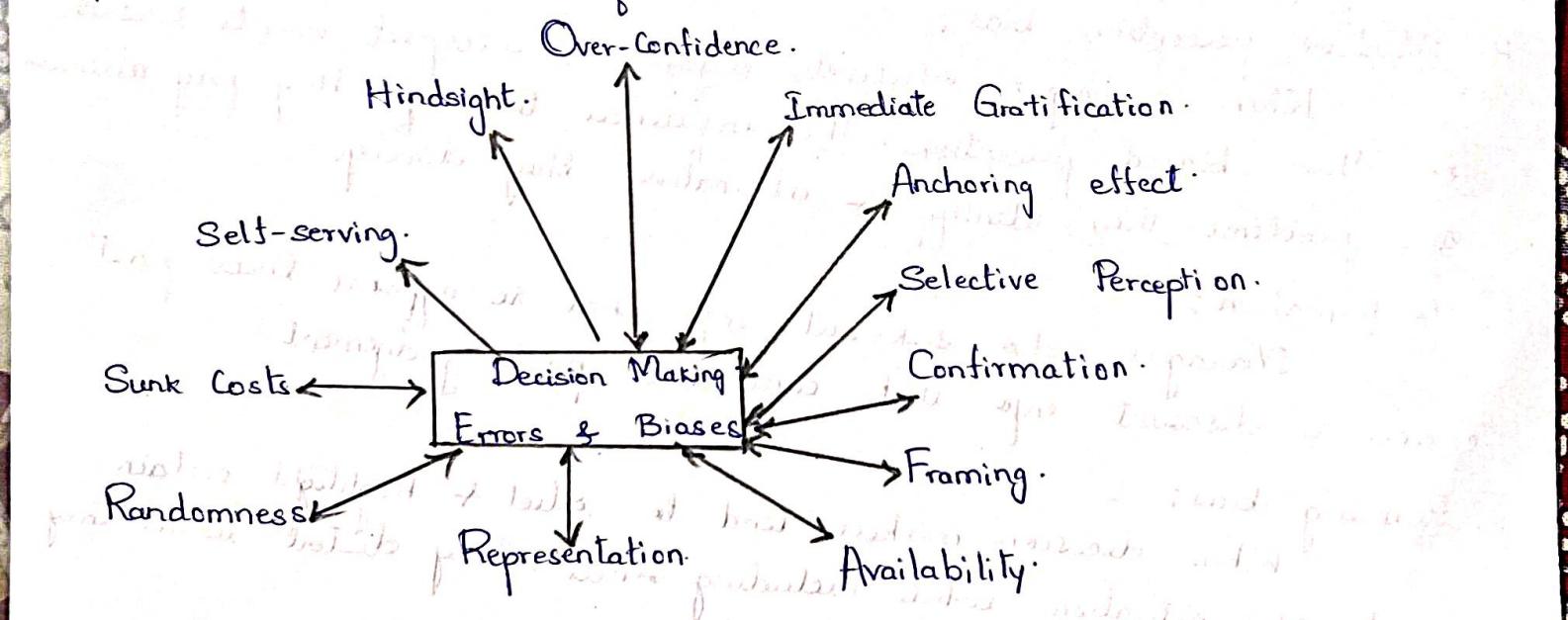
Eg: Fixating the past expenditure of money, time (or) effort in assessing choices rather than on future consequences.

11. Self-serving bias:

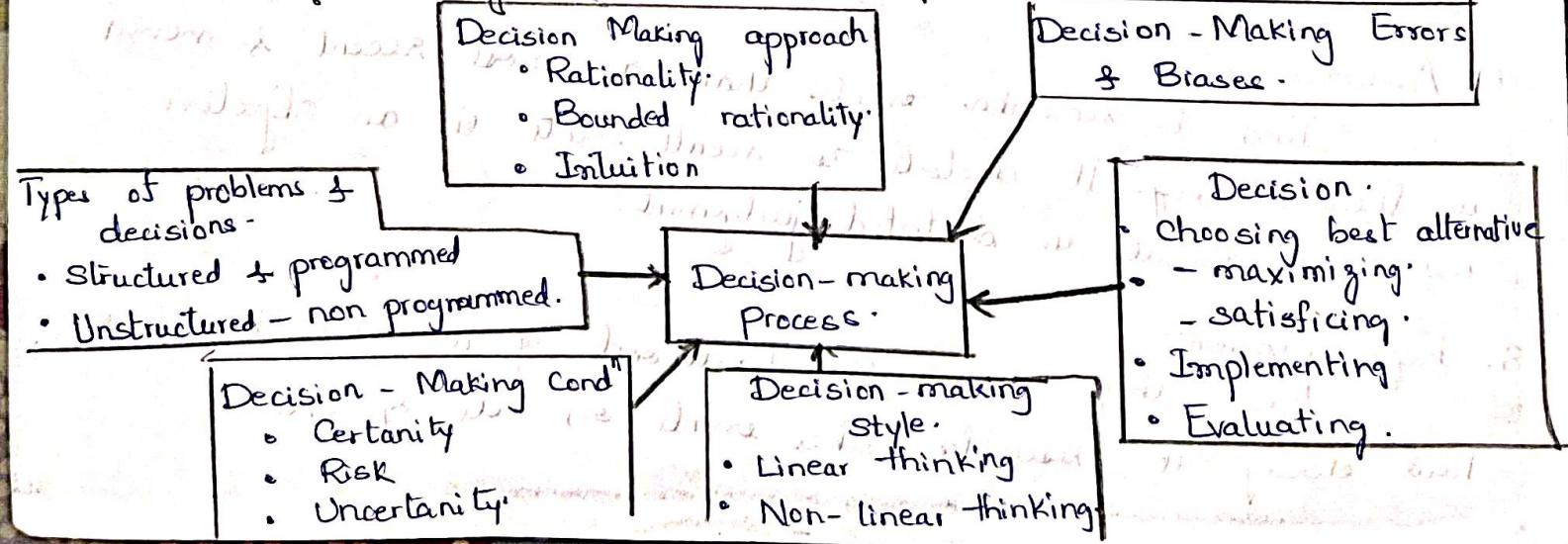
Managers who are quick to take credit for their success & to blame failure on outside factors.

12. Hindsight:

Tendency to falsely believe that they have accurately predicted the outcome of an event



② Overview of Managerial decision making:



Effective decision making in Today's world:

Today's business revolve around making decisions, often risky ones, usually incomplete & (or) inadequate info, & under intense time pressure. Some guidelines followed to make effective decisions are:

1. Understand cultural differences:

2. Know when it's time to call it quit.

3. Use an effective decision making process

4. Build an organization that can spot the unexpected & quickly adapt to the changed environment.

a) They are not blindsided by their success

b) They defer to the experts on the front line.

c) They let the unexpected circumstance provide the solⁿ.

d) They embrace complexity.

e) They anticipate but also recognize their limits.

3. a) focuses on what's important.

b) is logical & consistent.

c) acknowledge ~~the~~ both subjective & objective thinking & blends both analytical & intuitive approaches.

d) requires only "enough" info as necessary to solve the problem.

e) encourages & guides relevant info & informed opinions.

f) straightforward, reliable, easy to use & flexible.