

AIUB COURSE SOLUTION



TOGETHER WE CAN ACHIEVE MORE

AIUB COURSE SOLUTION

ENGINEERING MANAGEMENT

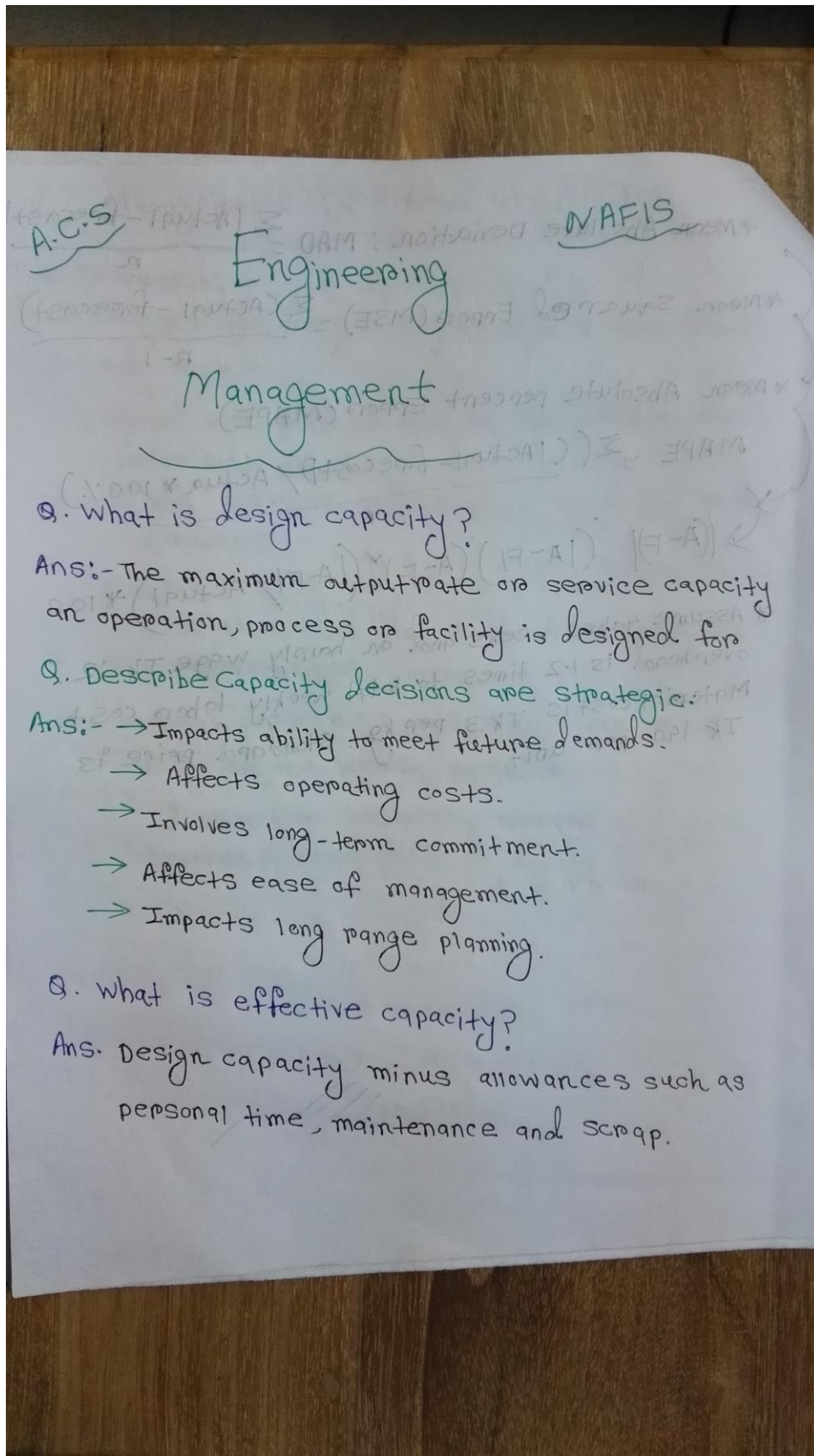
FINAL TERM

THEORY HAND NOTE

BY

NAFIS SAHRIAR

AIUB COURSE SOLUTION



AIUB COURSE SOLUTION

Q. Describe the assumptions of cost-volume analysis.

- Ans: → one product is involved.
→ Everything produced can be sold
→ Fixed cost do not change with volume
→ Revenue per unit exceeds variable cost per unit.

Q. How can we make Location Decisions?

- Ans: → Decide on the criteria
→ identify the important factors.
→ Develop location alternatives.
→ Evaluate the alternatives.
○ Identify general region.
○ Identify site alternatives.
→ Evaluate and make selection.

Q. What are the strategies of Multiple plant?

- A.
→ product plan strategy.
→ Market area plan strategy.
→ process plan strategy.

Q. What are the disadvantages of globalization?

- Ans: → Transportation cost
→ security
→ unskilled labour
→ Import restriction
→ criticism.

AIUB COURSE SOLUTION

Q. Write down some factors of Global Location.

Ans → Government stability.
→ Government regulations.
→ Exchange rates.
→ culture
→ climate
→ Economic stability and growth
→ Raw material availability.

Q. What are the assumptions of Location cost-volume Analysis?

Ans: → Fixed costs are constant
→ variable costs are linear
→ output can be closely estimated
→ only one product involved.

Q. What is Center of gravity Method?

Ans Decision based on minimum distribution costs.

AIUB COURSE SOLUTION

Q. what are the requirements for transportation model?

- Ans → List of origins and each one's capacity.
- List of destinations and each one's demand.
 - unit cost of shipping.

Assumptions:

- Items to be shipped are homogeneous.
- shipping cost per unit is the same.
- only one route between origin and destination.
- Demand and supply is equal.

Q. what is a project?

- unique, one-time operations designed to accomplish a specific set of objectives.

It is "a temporary endeavor undertaken to create a unique product, service, or result."

AIUB COURSE SOLUTION

Q. What are the steps for Capacity planning?

- Ans] → Estimate future capacity requirements.
→ Evaluate existing capacity.
→ Identify alternatives.
→ Select one alternative
→ Implement alternative chosen
→ Monitor results

Q. Write down some examples of projects.

- Ans] → Engineering projects.
→ Industrial projects.
→ Infrastructure projects.
→ organizational projects.
→ Development projects.
→ small and personal projects.

Q. Characteristic of a project:-

- purpose
- Temporary
- Dynamic
- High pressure and risk.
- uniqueness
- progressive elaboration.

AIUB COURSE SOLUTION

* What are the differences between project Management and operations Management?

project Management	operations Management
Has a start and end date	Repetitive work
unique and separate work	Existing systems
one time resource configuration.	Reliance on standard procedure.
Focus on change	Focus on maintaining
should have a primary sponsor	Efficiency and effectiveness.

Q] why do you need a project strategic?

Ans] → A market demand

→ An organizational need

→ A technological advance

→ A legal requirement.

AIUB COURSE SOLUTION

Q What is Quality?

Ans The ability of a product or service to consistently meet or exceed customer expectations.

Q Discuss about total Quality Management.

Ans It is a philosophy that involves everyone in an organization in a continual effort to improve quality and achieve customer satisfaction.

Q What are the determinants of Quality?

Ans → Quality of design.

→ Quality of conformance.

→ Ease of use.

→ service after delivery.

Q What is random variation?

Ans Natural variation in the output of a process, created by countless minor factors.

Q What is assignable variation?

Ans In process output, a variation whose cause can be identified.

AIUB COURSE SOLUTION

Control Limits:- The dividing lines between random and nonrandom deviations from the mean of the distribution.

What is Histogram?

Ans | Distribution of large amount of data under different categories.

NOTE:-

$$\text{Efficiency} = \frac{\text{Actual output}}{\text{Effective capacity}}$$

$$\text{utilization} = \frac{\text{Actual output}}{\text{Design capacity}}$$

Q | what are the challenges of planning service capacity?

Ans | → The need to be near customers.

→ The inability to store service

→ The degree of volatility of demand.