# CSE-417

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#### Part-I

Ans. to the ques. no. - 01(a)

## Failure Analysis o

Failure Analysis plays a vatal rede in taking decisions peretaining to maintanance planning and control.

Failure Analysis helps to identify
the nature and occurrence of
fallures and can be shown as a
generalized relationship of failure
depicted as a booth-tub curve (weibull
destribution) which is typical fore
all operating mechanisms.

Bath-tub reurere les drawn in the next page:

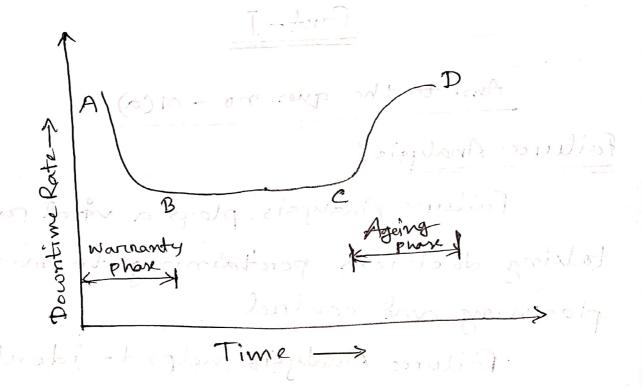


Figure: Bath-tub cureve

In the writer the pontion (A-B) in called the Infant monality, which is.

New ore recently serviced equipment is initially at a higher risk of failure due to break downs, vulnerable 272 damaged components.

This is known as "Hypere Exponential" Distribution This behavioure indicates design and installation defects and is usually provided with warmanty phase to covere this type of failures.

The phase (B-c) is known as "Negative Exponential" Distribution. Here monality reate is very stable and failure risk is near constant.

The phase (C-D) is called "Abnormal Exponential" Distoibution which is - components fail dul to ageing and wear-out and the failure reisk will increase with operating time.

This is the failure analysis behaviour in all in known as weiball distributions

#### Ansi to the gues. no. -01(b)

The wife

The objectives of maintenance Management arce shown below:

- (1) To maximize the availability and reliability of all ansets.
- (2) To obtain the maximum possible resturent on imvestment
- (3) To extend the life cycle of anests
- (4) To ensure the operational readines of all equipments orequired at the time of emergency.
  - (5) To ensure the safety of pensonal using facilities.

The is the failure endysis belowieur,

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#### Part-II

## Ans. to the ques. no. - 01(a)

#### Financial Management:

Financial Management involves the financial planning, force casting and preovision of finance as well as foremulation of financial policies.

According to Weston and Brigham:

"Financial management is an area of financial decision-making, harrowing individual motives and entenprise goal"

So, Financial management can be a set of Administrative actions which relate to the arrangement of cash and credit to enable the organization to carry outits objectives satisfactorily.

#### Ans. to the ques. no. - 01(6)

The objectives of Financial management at the Firem Level is given below:

### (1) Profit Maximization:

profit words as a standard for measuring the success or efficiency of a business entercprise. So, the objetive or target is to increase or maximize the profit.

(2) Maximization of Return:

A basic guideline according to which financial decisions can be evaluated but returns are mainly based on the profits earened by a firm.

## (3) maximization of Wealth;

A basic guideline according to which tinan eigl decisions can be revaluated.

## Ans. to the ques. no. - 03 (a)

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The foure basic questions that microeconomics theory is concerened with are listed below.

- (1) what goods shall be produced and in what quantities?
  - (2) How shall they be produced?
- (3) How the goods and sercvices produced shall be distributed?
  - (4) How esticiently are the resources being used?

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### Aus. to the gues. no. - 03(b)

Explaining the First Question of the basic economics questions below:

The First Question arrises due to limited availability of resources. The problem of allocating these resources optimally among the various uses is solved by the marchet system. The allocation of resources to the production of various goods and services depends Ane prices of various goods and factors of production. Microsco romis helps to analyze the relative prices of goods and factors are determined.

Since, microeconomic theory is concernd with the price system, it is also called the theory of price.