> Marketing refers to activities a company, undertakes, to priomote (1 (a) Define Marketing the buying our celling of a poroduct our govice. Marketing include advertising, selling I delivering poroducts to include advertising, selling I delivering poroducts to consumers on other businesses. Some marketing is done by affiliales, on behalf of a company.) x (b) What are the main functions of marketing? => The main thorse functions of marketing includes -(1) Functions of exchange, (11) functions of physical supply, (111) Facilitating Functions Functions facilitating Functions of Functions Functions of Physical Exchange supply 1. Financing 1. BUYING 1. Tocamspooltation 2. Risk Bearing 3. Market (a) Planning 2. Storage Information (b) Contractual 4, Standardization (c) Assembling 5. Policing (d) Negotiation b. Breanding 2. SELLING 7. Packaging (9) Product 8. Salesmanship Planning (6) Contractual 9. Advortising (c) Demand CHESTION (d) Negotiation

\*(a) Define Marketing.

According to American Marketing Association, Marketing is the process of planning & executing the conception, poucing, poromotion & distribution of ideas, goods, sorvice or create exchanges that satisfy individual & organizational goals.

(4) Selling focuses on potoduct.

(5) Selling is Poroduct-oriented.

(5) Marketing is Consumer - oriented.

(6) It emphasis on the needs of sellers.

\$ (6) It emphasis on the needs of buyers.

(b) What is Market Segmentation?

Market Segmentation is a marketing term that refers to aggregating pour pective buyers into groups ou segments with common needs & who respond similarly to a marketing action. Market segmentation enables companies to target different categories of consumere who porceive the full value of certain powduch & services differently from one another.

3. The following table gives the number of missing rivels (defects) noted at final inspection of the 25 bus bodies: 21,20,19,22,45,21,22,15,18,27,15,12,38,12,18,30,24,19,13,10,25,29,31,18,22. Dreaw the control chart.

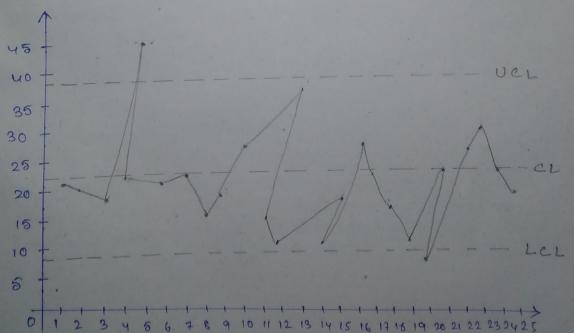
Ans control limit,  $C2 = \overline{C} = \frac{\text{no. of missing orivets}}{\text{no. 66 beus}}$   $= \frac{\text{Bu6}}{25} = 21.84$ 

UL UCL =  $\overline{C} + 3\sqrt{\overline{c}} = 21.84 + 14.02 = 35.86$ . LCL =  $\overline{C} - 3\sqrt{\overline{c}} = 21.84 - 14.02 = 7.82$ .

The control chart is

No. of missing 21 20 19 22 45 21 22 15 18 27 15 12 38 12 18 30 24 19 1 orivets	No.	1	2	3	y	6	6	7	8	a	10	11	12	13	14	15	16	17	78	19
	No. of missing orivets	21	20	19	22	45	21	22	15	18	27	15	12	38	12	18	30	24	19	13

				1			
no of bus	20	21	22	23	24	25	
No. 06 missing	10	25	29	31	18	22	



- (4) (a) What is Work Measurement?
- > Work Measurement is a technique to establish the time required for a qualified workers to carry out a specified job at & a defined level of performance
- (6) why is it impositant for the origanization? Ans It's importance for the organization is as follows
  - (1) To compare the efficiency of alternal methods. When for our more methods are available for doing the same for, the time for each method is found to out by work measurement.
- (11) Standard time is used as a basis for wage incentive schemes.
- (11) It helps for the estimation of cost, knowing the time standards, it is possible to work out the cost of the product.
- (1) It helps to plan the workload of man & machine
- (v) It helps in better production control.
- (VI) It helps to control the cost psuduction.
- (VII) It helps to fix. the delivery date to the customer,
- (VII) It can help to determine the orequirement of men & machine.

5. An 8 hours work measurement study in a plant nevels the following: Unile produced = 320 nos. Idle time = 15%, performance reatings = 120°10, Allow once s = 12°10 of noormal time. Determine the standard time per unit produced

## Solution

Idle time = 15 % parfoormance ocating = 120 % of woorking time = (100-15) % = 85 %

:. Observed time = (8 × 60 × 85) min = 408 min

Notherite production No. of will produced = 320 allowences 212° lo. of noormal time

Now, Normal time = [(observed time x performance orating)/100] = (408 x 120) min = 489 16 min

. Noormal time = 489.6 min

Noomal time / unit = 489.6 = 1.63 min

... allowence = 120/0 of noormal time  $=\left(\frac{12}{100} \times 1.53\right) = 0.1836$  min

Now,

Standard time = Normal time + different allocoences Standard time = (1.53+0.1836) min = 1.7136 min Chandard time & 1,714 min (Ans)

6. (a) What is Performance reating?

Ans The Society of Advancement of Management (SAM)

national committee defines the Performance reating as
the process during which the time study engineer

compares the performance of the operator under
observation with the observer's own concept of proper

(normal) performance. It can also be considered as the

The performance rating on efficiency:

= Observed performance x 100

Normal performance

efficiency of the worker.

(b) why is it required?

And The time taken for a job varies from person to person attributed to various seco stensons such as envisionment factors & human factors. So metimes, we come across some complaints such as the woorker is intentionally doing delay on the observer's judgement is prejudiced. To overcome such dispalis, judgement is prejudiced. To overcome such dispalis, the normal stating is compared with performance the normal stating is compared with performance stating to etandardin standardise the time & hence stating to etandardin standardise the time & hence

8. Discuss the elements of TGM concepts.

Ans According to Mike Hick (2005), the core elements in Total Quality Management (TQM) are:

- (0) continuous process improvement
- (e) customen focus

(e) defect prievention

( ) universal responsibility

It is initiated & directed from the top, but implemented from the buttom. The selection of improvement projects is specific & focused. The problem areas must be identified, principlised, critical processes selected for improvement, & improvement goals set for the project improvement, & improvement goals set for the project improvement, & improvement goals set for the project improvement is a buttom up process, which requires the involvement & the staff.