

CMA STUDENTS AND TEAM AAC
CELEBRATING SUCCESS OF CMA
INTER CLEARED STUDENT IN GOA



FIRST TIME IN HISTORY OF CMA.....





....NEXT CAN BE YOU.



## CMA STUDENTS AND TEAM AAC CELEBRATING SUCCESS OF CMA INTER CLEARED STUDENT IN GOA





TOKEN OF MOTIVATION TO ACHIEVERS







CMA STUDENTS AND TEAM

AAC CELEBRATING SUCCESS

OF CMA INTER CLEARED

STUDENT IN GOA





PROMISE MADE BY AKASH SIR IN
LAST SUCCESS BATCH IS DELIVERED





# CMA STUDENTS AND TEAM AAC CELEBRATING SUCCESS OF CMA INTER CLEARED STUDENT







THAT IS WHY STUDENTS SAYS

AAC=CMA

....NEXT CAN BE YOU.



## CMA STUDENTS AND TEAM AAC CELEBRATING SUCCESS OF CMA INTER CLEARED STUDENT



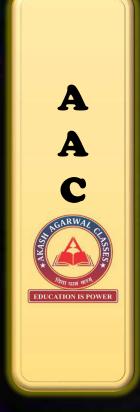




....NEXT CAN BE YOU.



P R I D E







## 500+ STUDENTS CLEARED CMA INTER IN JAN 23



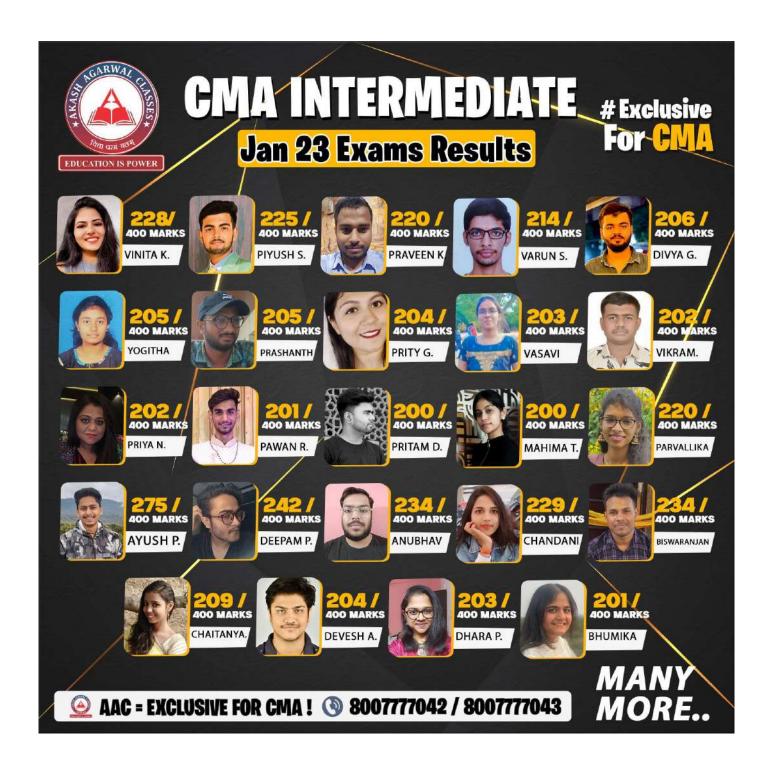




#### **CRACKED BOTH GROUPS IN FIRST ATTEMPT**

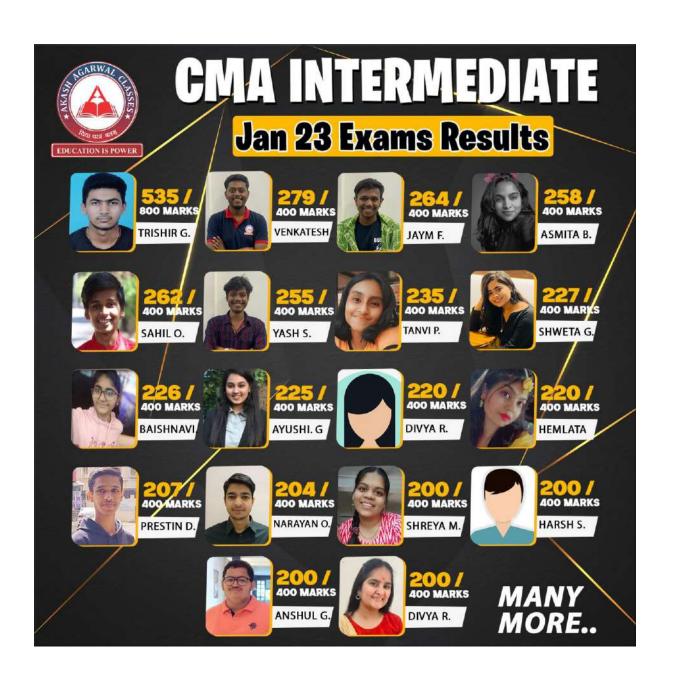


### PRIDE OF AAC STUDENTS CLEARING BOTH THE GROUPS











## 1. OPERATION MANAGEMENT

Ques-1] What is mean by operating System 388 • 1] Operating system defined as -Configuration Resources OF combined for provision of goods & Services. 2] Examples -Retail organizations, Hospitals, Bus, Taxi services, Hotels Tailor etc. · 3) Satisfactions -Any op system converts INPUTS, Using physical to create OUTPUT Resources to satisfy customer wants. The creation of goods & services in volves transforming or converting INPUTS into OUTPUTS. 4) Various inputs such as -CAPITAL 1 ABOUR INFÓRMATION

- Used to create goods & services.

AKASH AGARWAL CLASSES1 or more transformation 177042 rocess.

- · 5] feedback & Control -
- To fensure that desired output are obtained an organization takes measurements at various points in transformation process.
- Compare previous establish standards determine corrective

Ques-2] What is mean by | Scope of Operation management 333

A) Location of Facility

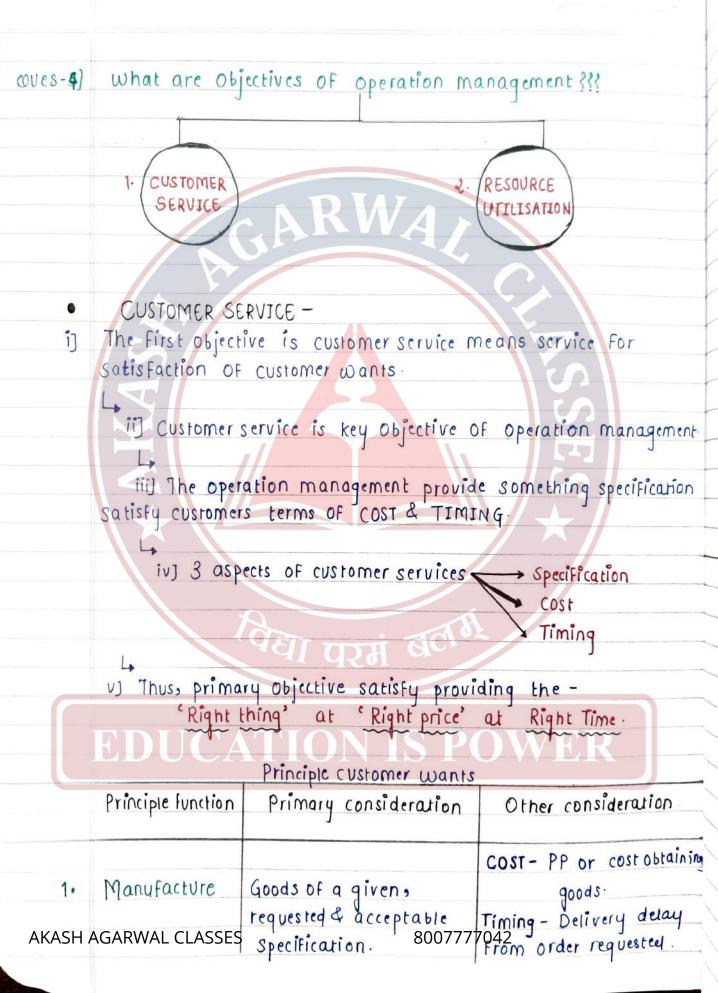
- EJ Product design
- B) Plant layout & mat handling.
- F] Process design

c] Material management

- G) Production planning & control
- D) Maintenance management.
- H) Quality control.

EDUCATION IS POWER

Ques-3]	Production Management VS operation management					
44	PRODUCTION MANAGEMENT	OPERATION MANAGEMENT				
1 USES _ 2. UERS COVERS	Production management is more used for system where tangible goods produced.  Production management will cover process design, planning	Operation management is more frequently used for inputs transformed to intangible.  Operation management will cover organisation as bank, airlines, pollution control, firms,				
3.	& control is sues involving quality & organisation.  It is related to evolution- Operation management is term that used nowdays.	police department etc. to enterprises.  Production management preceds operations management in historical growth of subject.				
	EDUCATION	IS POWER				



			Movement of a given,	COST - COST OF movement
2.	Transport	-	requested or acceptable	Timing - Duration &
			specification.	time to move
				wait or delay from
			DIA	commentement.
		C	AKWA	
			4	
3.	Supply	Y	Goods of a given,	cost - PP or obtaining
			requested or acceptable	
			Specification.	Timing - Delivery delay
				from reg. Supply
Λ	Service		Treatment of a given,	cost - cost of treatment
4.	SCIVICE		requested or acceptable	Timing - Required time
			specification.	For treatment

• RESOURCE UTILISATION —

ij Major objective is Utilize resources for satisfaction of customers wants effectively.

leads to commercial failure of op. system.

with wilization resources.

#### CA SHRUTI AGARWALLAL IS CHACMAINTER OM THEORY BHI HATZARURIS

- 1] Manufacturing as competitive advantage
- Past production was considered to be like any other function org.
- When Demand + & production capacities where inadequate
- muster all inputs & Use to produce goods grabbeel market.

then,

- (TQM) Total quality mamt, (JIT) Just - in- time
- (CIM) computer integrated manufaurure

are only techniques employing gain advantge

- 2) Service Orientation
- Service Sectoris gaining greater relevance these days

The entire manufacture needs to geared serve

- Intangible & perishable nature of services.
- constant interactions of client & customers.
- Small volume of prod" serves local marker
- Need to locate laulity to serve local market

- 3) Disappearance of smokestocks
- Protective labour legislations, environmental movement & gratual emergency of knowledge based on organisation.
- Have, brought total transformation in prod^ System
- Todays factories are Systematically design & built eviron Freienelly homes away From homes.

- 4) Small has become Beautiful
- E.F. Schumacher, in famous book small is beautiful opposed giant organisation & increase specilisation.
- He advocated, instead, intermediate technology, basey on smallers works units
- Businessman, all over work did not believe schumacher philosophy.
- Inspired economics scale, & mass production.

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- (2.6) What is recent trend in production / operation management?
  - 1) GLOBAL MARKET PLACE -
    - Globalisation of business has compelled many manufacture. Firm to have operations in many countries, where they certain advantage.
    - This resulted in steep INCREASE LEVEL OF PRODUCTION among manufauturing.
  - 2] PRODUCTION / OPERATION STRATEGY -
    - More and more firm recongnising importance of production operation strategy overall success of business:
  - 3) TOTAL QUALITY MANAGEMENT [TOM] -
    - Tom approch has been adopted many firms to achieve customer satisfaction by never ending thrust for improving quality goods & services.
  - 4) TIME REDUCTION -
    - Reduction for manufauturing cycle time & speed to market for new product provide competitive edge 10 over firm.

TON IS POWER

- · Companies provide product at same price & quality provide edge over other
- 5) TECHNOLOGY-
  - Advance in technology had led to vast array of new product, new process & new materials and components.
     Automation, information & communication have way

Technology changes in product & process have great impact

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- 6] WORKER INVOLVEMENT -
  - · The recent trend to assign responsibility for decision making & problem solving to lower level of organisation.
  - This is known as employee involvement & empowerment eq = Quality improvement teams.
- 7) Re-ENGINEERING -
  - This involves drastic measures or break through improvement to improve performance of firm.
  - It involves concept of clean-slate approch.
- 8] SUPPLY-CHAIN MANAGEMENT-
  - · Management of supply chain, from supply to final customers reduce cost of transportation, warehousing ex-
- 9) LEAN PRODUCTION
  - production system have become lean production system which use minimal amount of resources to produce high volume of high quality goods.
- 10] ENVIRONMENT JSSUE
  - e More with pollution control & waste disposal are key issues in protection of environment.
  - here is increasing emphasis on reducing wastes chemical using biodegradable material.

## 2. OPERATION PLANNING

Ques-1) What is mean by forecasting ??!

Forecasting means peeping into future

As future is unknown and anybody's guess but business

Leaders in past have envolved in certain systematic and

scientific methods to know,

4> Future scientific analysis based on facts.

This systematic method is called as forecasting.

The sale forecast is estimate amount of unit sales for specific period under marketing plan & program.

Short term forecasting will more useful in production.

· Long range Normal p = 5 yrs

Other period = 10 to 15 yrs.

1) Acquire new facilities

2) Determine cash flow from sales.

3) Plan for future manpower

requirements.

4) Plan for material requirement.

5) Plan For reasearch development.

i long Term growth factors.

Medium range = 1 to 2 yrs

1) Determine budgetory control
Over expenses.

2) Determin dividend policy.

3) find & control main expense

4) Determine schedule of

operations.

5) Plan for capacity adjustment

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PROCESS

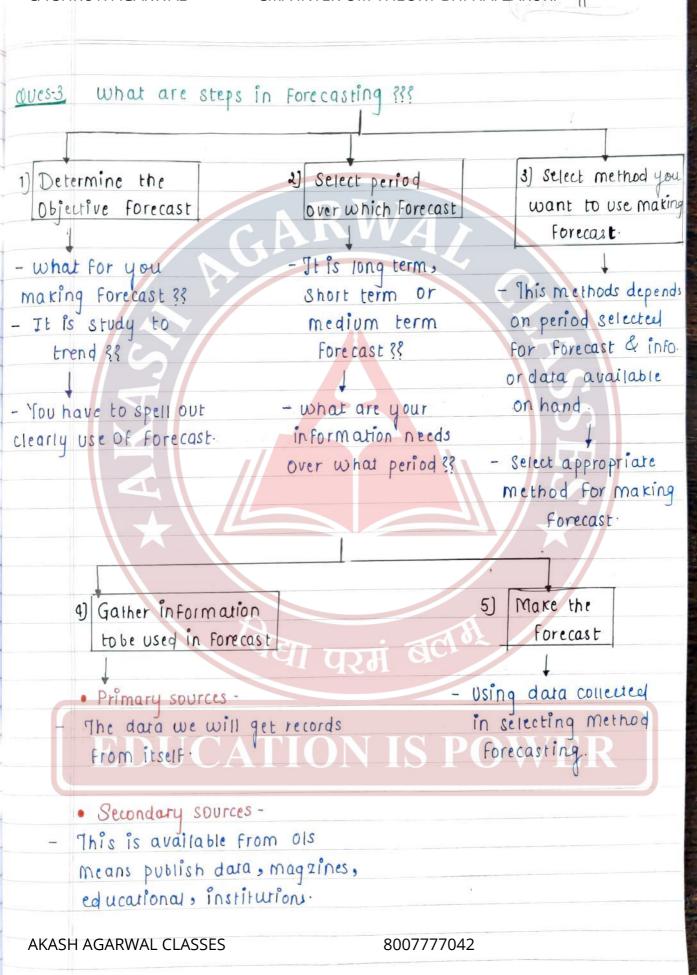
3.

- Short Term = few weeks · Various factors influence 3 to 6 months. Forecast are -Estimate inventory require. 1) - Environmental change Provide transport facility Changes preference of despatch fg User. Decide Work loads for men 3] No of competitive product & machines. Disposable income 4] find working capital. Of consumer 5] Fix sales quota. what factors determine effective capacity ??? Ques-2 FACILITIES Design, layout, Location & environment. 1. PRODUCT 2. Product design , product - mix.
  - 4. HUMAN FACTORS Job content, Job design, motivation, expressing of lab, learning rate.

Quantity & Quality capabilities of process.

- 5. Schedwing, material management,
  equipment breakdown.
- 6. EXTERNAL FACTORS Product Standards, Safety regulation, AKASH AGARWAL CLASSES

  8007777042
  Pollution Standard.



AKASH AGARWAL CHASSEST Worker.

#### what is mean by capacity planning ??? (Ques-4) The effective management capacity is most important responsibility of production & op. management. 2) Objectives of capacity planning i.e planning & control capacity, match level of op-level. (3) finding answers to basic questions regarding capacity-A) what kind of \_\_\_\_ B) How much c) when this capacity needed ?? cap.needed ? ? capacity needed? Capacity planning is carried out keeping in mind future growth & expansion plans, market trends ? Capacity is usually expressed volume of output per. period time. Capacity planning 2 types a) Long. Term cap plans b) Short Term cap plans Concern with investment - which takes into account in new facilities & equip. work force size, overtime, budget, inventories etc. - This plan covers time horizon more than 2 years. The operating unit might be plant, department, machine, VAL CLASSES, warrer. 8007777042

aves-5) Measurement of capacity 33

Capacity of plant usually expressed as rate of output.

i.e = Terms of units produced per time.

(Hour, shift, day, week etc)

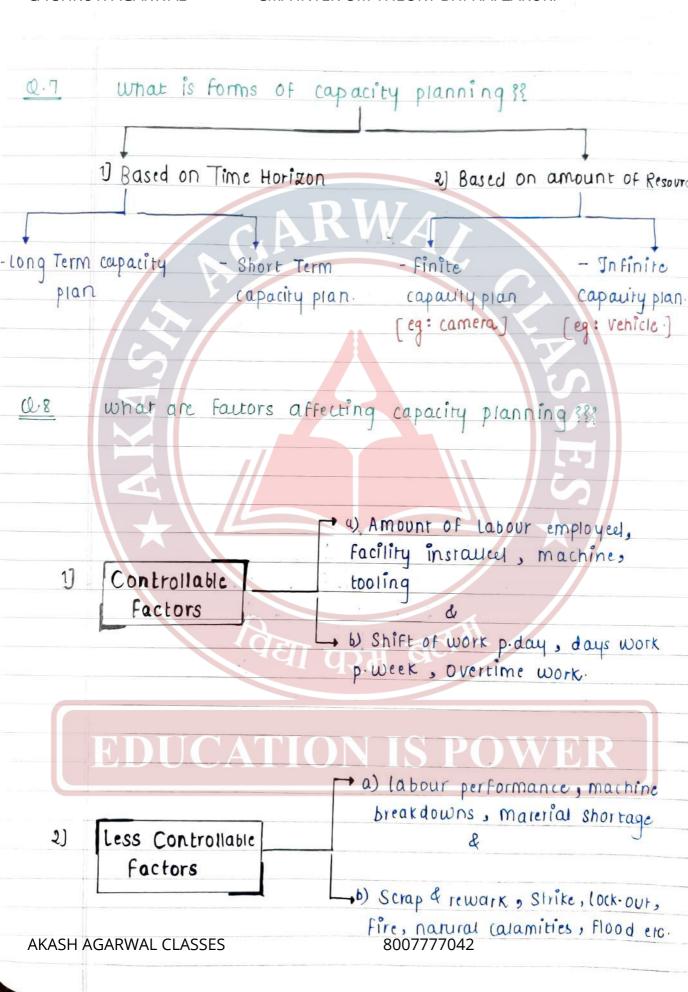
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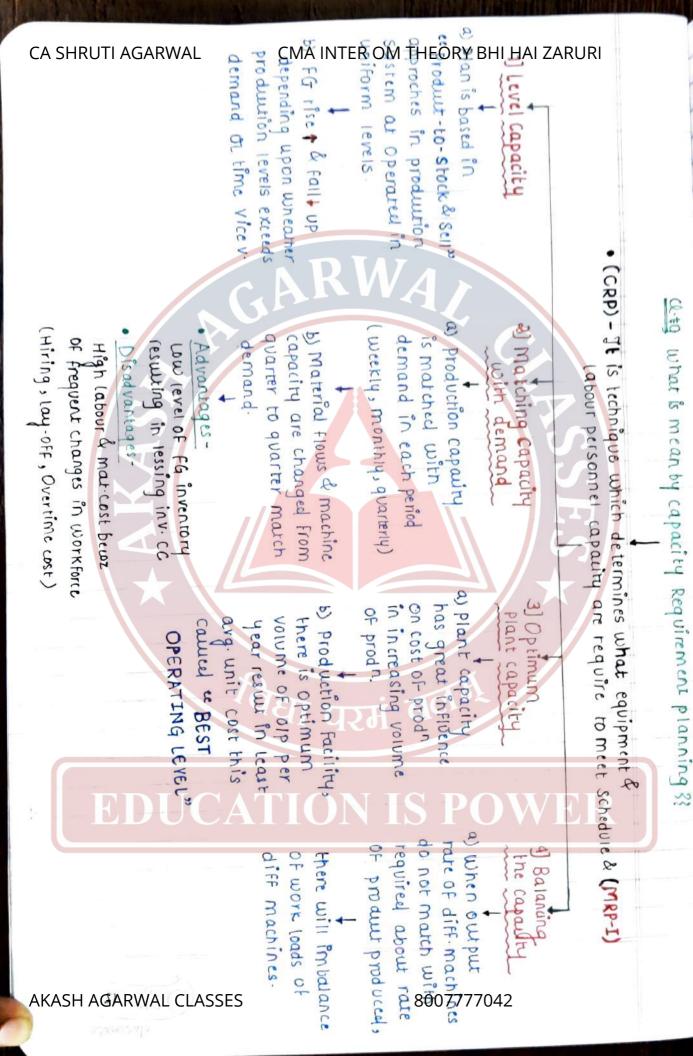
when firms are producing different types of product, it is difficult to use volume output each product express to capacity of firm.

Capacity of firm expressed in terms of monetary value of various product together.

alves-6) What Factors affecting determination of plant capacity ??

- i) Capital investment required
- ii) changes in product design, process design, Market conditions & product life cycle.
- iii) flexibility for capacity additions.
- iv) Market demand for produt.
- vi) Type of technology selected.





#### CA SHRUTI AGARWAL CMA INTER OM THEORY BHI HAI ZARURI

• (CRP) - It is technique which determines what equipment & labour personnel capacity are require to meet schedule & (MRP-I)

1] Level Capacity

a) Plan is based in

er Product - to - Stock & Sell"
approches in production
System at Operated in
uniform levels

b) FG tisc + & fall up depending upon wheather production levels exceeds demand or time vice v. a) Matching Capacity
with demand

a) Production capacity
is matched with
demand in each period
(weekly, monthly, quarterly)

b) Material flows & machine capacity are changed from quarter to quarter match demand.

Advantages-Low level of FG inventory resulting in lessing in v. CC

Disadvantages-

High labour & maticost becoz of frequent changes in workforce

3] Optimum
Plant capacity

a) Plant capacity
has great influence
on cost of prod<sup>n</sup>
in increasing volume
of prod<sup>n</sup>.

volume of olp per year result in least avg. unit cost this called e BEST OPERATING LEYEL"

b) Production facility,

there is optimum

4) Balancing the capacity

a) when output rare of diff-machines do not match with

there will imbalance of work loads of diff machines.

required about rate

Of product produced

AKASH AGARWAL CLASSEString, Lay-OFF, Overtime cost 8007777042



1. Forecast of demand

Plant & Lab.

Subcontracting

4. Multiple Shift of Loperation.

Managema Policies

A] Forecast of demand -

Demand forecast is going to influence capacity
plan in significant way.

- It is very difficult to forecast the demand with accuracy changes significantly product life cycle stage.

B) Plant & lab efficiency-

- It is difficult to attain 100% efficiency of plant & equipment.

- The efficiency less than 100% because of enforced idle time due to machine breakdown.

c) Subcontraing=

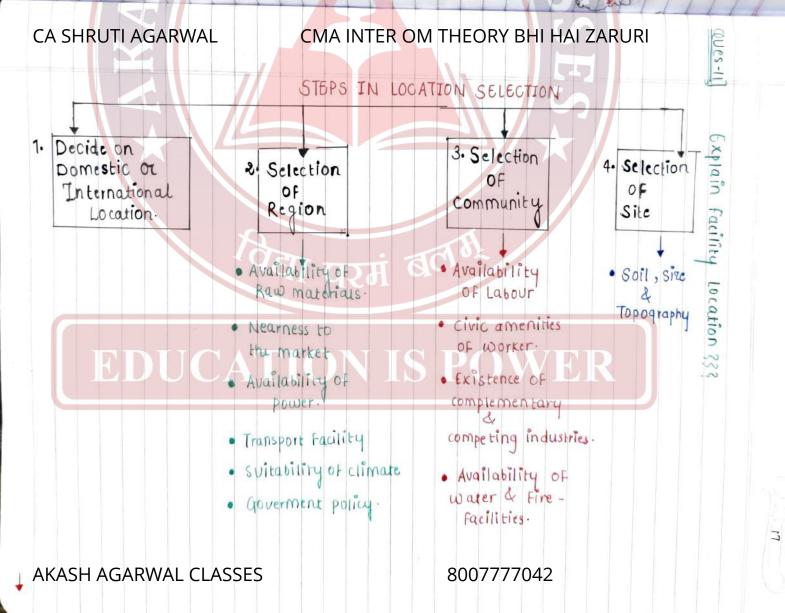
- Subcontraiting refers to off loading some of jobs due to outside vendors,

thus hiring the capacity meet requirement of organisation

D) Multiple shift Operation -

-Multiple Shift are going to enhance the firm's capacity utilisation.

e) Management Policies AKASH AGARWAL CLASSESticies regards subc8007777942multiplicity of shifts



### 1. Deciding on Domestic Or International Location -

i) first step in plant location" decide wheather facility should located domestically or internationally.

ii) If mymt decides foreign location, Next logical

Step is - decide particular country for location.

as political stability, export & import quotas,

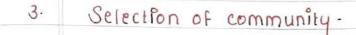
currency & exchange rates, natural or physical condition.

2. Selection of Region -

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		/ X	
A) Availability of	8) Nearness	9 Availability	DJ Transport
Row material	to market	of power	Facilities
1	BU		1
Nearness to raw mat.	- Goods are produced	Power is essential	Transport
offer such advantages:	For sale, it is	to move wheels	facility are
	very essential	of an industry,	essential for
- Reduced cost of	factory should	coal, electricity,	bringing raw
Transportation	located near	oil & natural	material
- Regular & proper	their market.	gas are sources	4
supply of materials.		of power.	Men to Factory
- saving in cost			4 for carrying
Of storage of mat.			FG from a
		4	-aurory market

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- A) Availability
  Of Labour
- Labour is an
  important factor
  of produof goods.
- An adequacy of

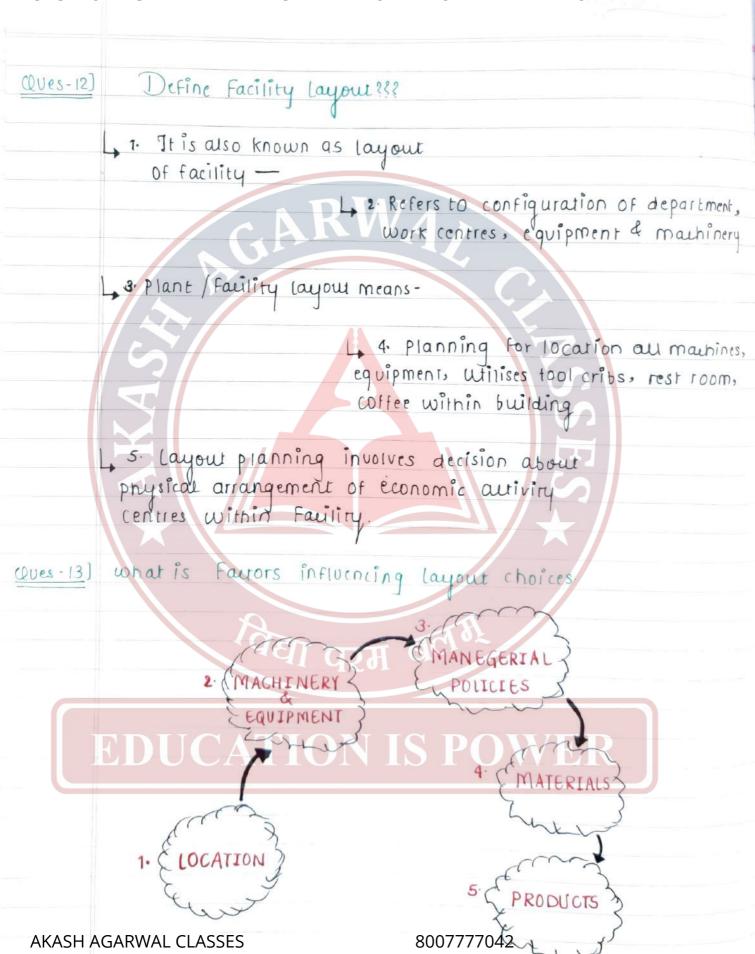
  (ab. supply at

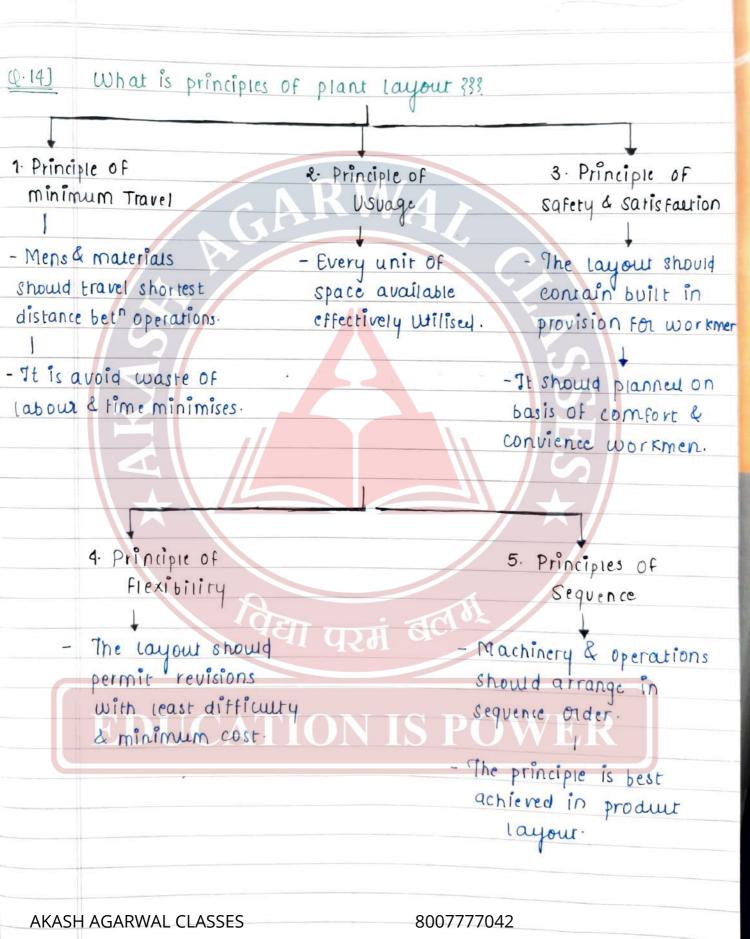
  reasonable wages
  is essential for smooth
  & successful working
  of organisation.

- B) Civic amenities of Worker
- Besides good
  working condition
  inside fautory, employees
  require certain facility
  outside.
- facilities such as clubs, theatres, parks elo... must provided for employees

- complementary & competing industries
- An industrial unit, collaboration with other similar unit, secure mat better term than it can do itself.
- -They it helps to increase variety of materials.

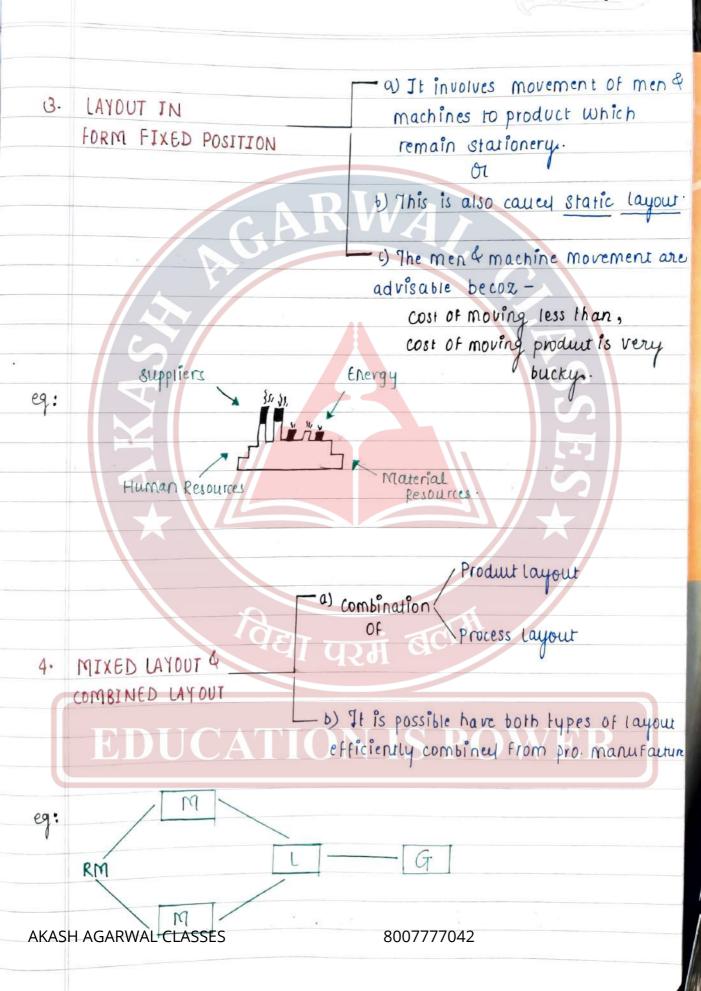
- 4. Selection of site
- A) Soil, Sixe & Topography
- Producing engineering goods, fertility or otherwise of soil may
- Agro based induestries, fertile Soil necessary for ensuring strategic plant location.





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What is mean by Aggregate Planning ? ?? Q-16 \*\*i) Aggregue planning is intermediate term of planning decision. ii) It is process of planning quantity & timing of Olp over intermediate time horizon (3 months to 1 year) ii) Physical facilities are assumed to be fixed in planning period iv) Agg. planning seeks best combination to minimise cost. long Range Short Term Intermidiate Planning planning planning. Deals with the - Deals with Deals with the strategic decision. day-to-day work. relationship with agg. planning. What is aggregate planning strategies 12? a) variables of production system are labour, material & capitals. b) More Labour effort is require to generate higher of output.

> c) Employment & use of overtime (ot) are two relevent variable. d) Material helps to generate output.

AKASH AGARWAL CLASSES workforce iij vary & P. 27777042

iii) Vary inventory levels.

Ques-18 Material	Manufacturing	Enterprise
Requirement plan (MRP-1	Manufacturing  Resource Planning (MRP-11)	Resource Planning (ERP)
lead the lead of t	resource   farmers	
y (MRP) refers to basic	1) (MRP-II) has been developed	J It is popularly known
calculation used to	to facilitate manufacturing	as ERP.
determine components	manage and planning	
reg. from end item	controlling of manu process.	2) ERP is todays buzz-
requirement.	AND	word in corporate world.
	au releated support functions	
	1	3) companies world-wide
2) MRP logic serves the	2) Logically correct planning	
as key component in	& controlling activities	business process
	released to material,	reduce cost & increase
& controlling prod n.	Capacity, Finance, sales.	productivity.
20	<b>†</b>	(4)
3) The info. provided by	3) (MRP-II) is universally	4] ERP software provided
	applicable to any manufact	Total Solution' to
Scheduling.	organization, regardless	business enterprise.
	its size, location, produt	
Objectives (MRP-I)	& process.	5) ERP is business process
Reduced Inventory		mgmt software package
· Reduction in manufact.		developed for optimum
· Realistic delivery com.		resources of enterprise.
· Increased efficiency	ATION IS P	OWER
1		6] ERP integrates entire
Advantages		enterprises starting from
A) Reduced Inventory		supplier to covering a
B) Reduced idle Time		logistics, financial resource
9 Reduced Set up Time		J
D) Ability to price more AKASH AGARWAL CLASS	ES 800777	7042



- 7) Production managers often decide quantity of OIP be produce batch is known as "LOT SIZE" OR "BATCH SIZE"
- 2) The product are manufacture in lot size against the anticipated demand for productions.
- 3) Quantity may produced may exceed quantity which can sold.
  - 4) Means, production rate exceeds demand rates.
- STOptimum lot/size which is SPOVER known as -

"EOQ / EBQ /
Economic lot size"
which produce in 1 barch.

- oves-20 What factors considering determining lot size manufacturing !!
  - 1) Higher Rate of production should match with rate of Usuage.
  - 2) Higher Lot size (LS) 1 then, cost per unit produced

    Becoz,

Distribution of set-up cost for setting up produot machines preparing paper work.

BUT,

cc + will with + (LS)

3] Higher † (LS) then, † possibility of loss due to detoriation.

Obsolenscene,

( Due to technology & product design)

विद्या परमं वटा

### 3. DESIGNING OF OPERATIONAL SYSTEM

(Quei-1) What about product Design ???

- · Production or operation strategy is directly influenced by product design for forlowing reasons.
- As products are designed, all detailed characteristic Of each produit established.
- ii) Each produit characteristic directly affects how product can made or produced.

iii] How product made determines design of prod system which is heart of prod 4 operation

- · Product design directly affects product quality, production cost, & customer satisfaction.
- Design of product is crucial to success in today's global competition.
- An excellent design includes -usability, reliability, functionality, innovation & appropriateness.
- Excellent design provides competitive advantage to manufacture

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3. (assurance, Formulating quality goals.

Production)

4. Accounting Formulating cost targets.

# 5. Marketing, Constructing, testing prototype. Production:

GARWAIC GIRASSI

Documenting Specification.

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Ques-3]

what are objectives of product design ???

- 1. Profit generation in Long run.
- 2. To achieve the desired product quality.

3. To reduce development time & cost to minimum

4. To reduce cost of product

5 To ensure producibility & manufautuability.

विद्या परमं बदाम

(Ques- 4)	What are the factors	influencing produt design !!!
	_	Designer must find out exact requirem.
(A)	CUSTOMER REQUIREMENT-	customers to ensure product suit the
		convience for use
		Product must be designed to be used in
		all kinds of conditions.
		The Padusty Pat and the Land
		The industrial product of such machine
B	CONVENIENCE FOR	& tools showd design,
•	OPERATOR / USERS	2 Then they are convenient & comfortable
	OF ORATION / OCCAS	For users.
		101 000.0
(E)	TRADE BETWEEN TWO	Design should combine both performance
	FUNCTIONS & FORMS	& apperance with proper balance two.
		apperance com proper valance (wo.
	a /	D New a better materials are improve
	'पृद्ध	The product design.
$\widehat{\mathtt{D}}$	TYPES OF MATERIAL	The product design.
	USED	La Designers Keen in touch with latent
		development taxing ouers in sield of
	EDUCATI	development taking place in field of materials & use for improve the
		product devian
		produu design.

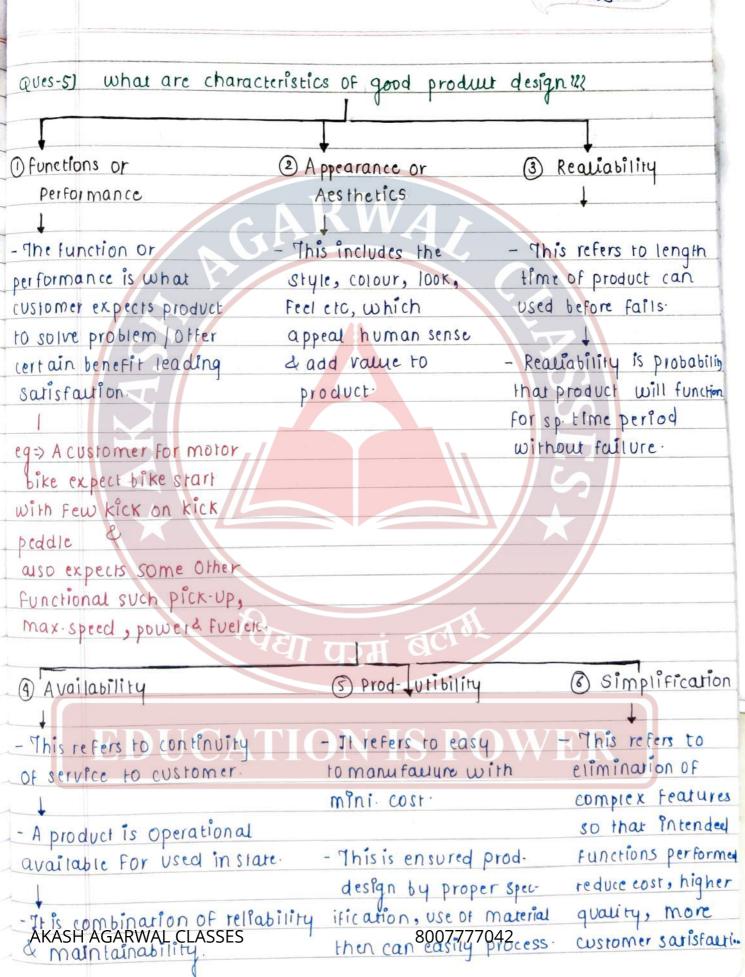
EQUIPMENT AKASH AGARWAL CLASSES

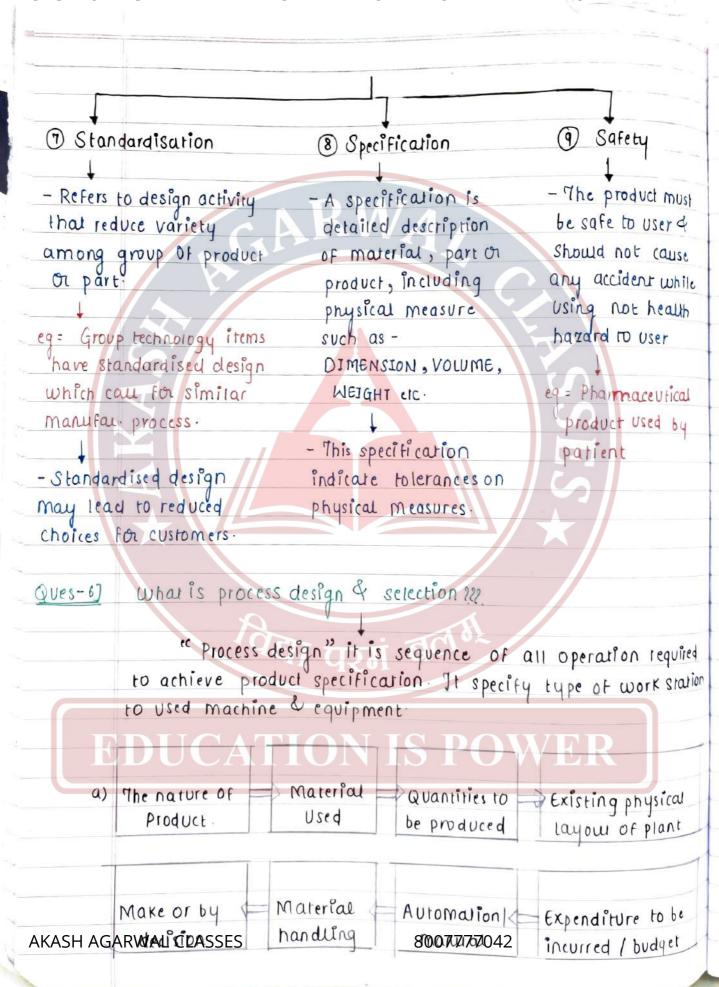
Designer must keep abreast improvements in work methods, process, & equipments, design to make latest technology to achieve reclution

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1) The product quality partly depends on quality of design & partly on qual of performance. PRODUCT QUALILITY-The quality policy of firm provided necessary quidelines for designer regarding extent to built design stage O The product design should take into consideration the quality OF PROCESS CAPABILITIES. (G) conformance. 2 This depends on process capabilities of machines 4 equipment 3 However, designer should have knowledge of capabilities of manufau 1 Packing is an essential element of product & packaging design go hand in hand with equal importance PACKAGINGot packaging design. Deckaging design must be take into an account of packaging such protection of product.

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#### ques-7) What is process planning ???

- A) Process planning refers to way production Of goods & services is organised.
- B) It is basis of decision regarding capacity planning, facility layout, equipment etc.
- c) Process selection is necessary firms takes up production of new product.
- : 3 primary questions to addressed before deciding process -

1 How much variety of product or services will system need handle ?? 2) What degree of equipment flexibility will needed ??

3) what is expected volume of output ??

# विद्या परमं वल्य

Ques-8] what is process strategy?? what is different types of process
strategy!?

- Process strategy is organisation approch to process selection for purpose of transforming resources into good & services
- Objective To find way produce goods & services meet customer requirement.
- key aspects includes
  - is Maker or buy decision.
  - ij capiral intensity
  - iil Process flexibility.
- · 3 process Strategies -

PROCESS

REPETITIVE

PRODUCT

AJ PROCESS FOCUS -

- ij- such process are called intermittent process also.

  ii) Majority (75%) of global production is devoted
- to low volume, high variety product in manufacturing process
- BJ REPETITIVE FOCUS
  - i) A repetitive process is product oriented production process that uses modules.
    - ii) It falls between product & process focus.
- c) PRODUCT FOCUS -
- i) It is facility organised around products, product oriented

AKASH AGARWALVELASSESOW - Variety Process8007777042

Ques-9) Explain product life cycle ???

The life cycle of product is broken into 4 Stages INTRODUCTION, GROWTH, MATURITY, DECLING.

- The cintroduction stage' is preceded by production and development.
- 1 This period requires greater investment.
- introduction stage & product will available in national market.
  - 1 In growth stage is preceded by both sales 4 profit will begin in increase.
  - The management, should try to change approach by changing strategies from to "try my product" to "try my product"
  - -3) At end of stage, distributed arrangement get completed & prices necessary reduced.

1. INTRODUCTION STAGE

GROWTH

EDUCA

2

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- There is 3rd stage is majority stage.
- During this stage, manufacturing introduce new models on adopt method,
- 3 to promote sale of their brands with retaining view of position no of buyon will grow, but more slowly.
- 1 At this stage, supply exceeds demand

4. DECLINE STAGE

STAGE

Margin touch a low level, competition become serve & customer Start using better product.

EDUCATION Story of product ends - a natural but hard end.

Ques-10)	Discuss process selection !!!
,	
	5 basic process
	Types — A) Job shop
	B] Batch shop process
	C] Repetitive process
	d) Confinuous process
	e) Project process.
A]	Job shop:
	- It is used in job shops when low volume of high-variety
	goods are needed
	- Job shop characterised by high customisation, flexibility of
	equipment & skill labour volume.
8]	Batch Process 1-
	- Batch processing is used when moderate volume of goods
	on services is required & moderate variety in product 4 services.
c]	Repetitive Process :
	- Repetitive process is also referred as line process as it
	- Repetitive process is also referred as line process as it include production lines & assembly lines in mass production.
D	continuous Process:
	- continuous process is extreme end of high volume, Standardised prod with rigid lines flows.
	Standardised prod with rigid lines flows.
EJ	Project Process:
	- It is characterised by high degree of job customisation
	large scope of each product need substantial resources to
AKASI	H_AGARWAL CLASSES 8007777042

# 4. PRODUCTION PLANNING AND CONTROL

Ques-1] About production planning & control 22?

· Production - Planning - Control is predetermined process

which includes

Raw material, Human resources & machines erc.

- · PPC comes under manufacturing department.
- PPC is technique to plan each & every step in long series Seperate operation.
- It helps to take "Right decision" at "Right time" 4 "Right place to achieve max efficiency.
- · PPC can be viewed on nervous system of prod operation.
- · Scope: Untimited and can be applied to any type of activity
- Short range planning focuses on such areas such Inventory goals & wage budget.

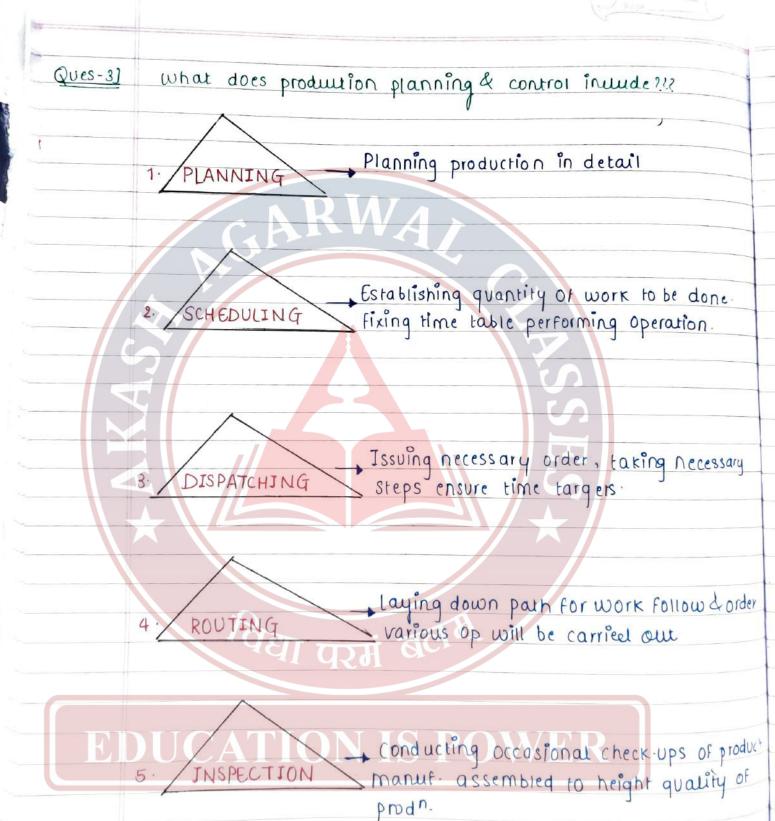
Ques-2)	what	îs	06	jectives	OF	P-P-C	121
---------	------	----	----	----------	----	-------	-----

O Answering questions From customers & salesman concerning

Status their order

Assisting costing department in making cost estimates order. (3) Controlling Stocks of Finished parts 4
produus.

- 4 Determining necessary tools required manufacturing.
- rewrds scheduled & in proco
- Maintaining stocks of materials & parts.
- Receiving order From
- (8) Preparing route sheets & schedule showing sequence op-prod<sup>n</sup> produt.



#### CA SHRUTI AGARWAL CMA INTER OM THEORY BHI HAI ZARURI

ORDER LOAD 2. FLOW CONTROL BLOCK CONTROL CONTROL CONTROL A) The most A) This type of control A) Load control A) This type of control common type is most prominent typically founded is commonly applied of prod is in text tiles, books & whereever industries like chemicals called order magzines printing. petroleum, glass & some control areas of Food manufac. B) A particular B) In this industries, bottleneck machine 8) This type of necessary to keep B) Once's prod system exists in process control commonly things seperated. designed then ppc manu fau wing employed comp. department control so cauce as rate of flow of work Job-Lot-shopes" fundamental reasons in to system. why industries resort to block control. c) But under routing, scheduling are done, When plant laid out.

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BATCH

CONTROL

A) Batch is another

control which

imp type of prod"

frequently found

in food process

Industries.

Difference between Time studu	& Motion Study ???
TIME STUDY	MOTION STUDY
Time study aims determining best manner of doing job 4 timining performance of job when done in best manner.	
Time study work is divided into elements of operations.	In motion study, work is divided into funda motions
Attempls are remove useless motions & improve combinations & sequence of motion & op-	- Same -
Motion Analysis	Elements of operation in 1 machinery.
Best method determined by analysis of methods of equipment used motions only rough & indirectly.	determining by motion
	Time study aims determining best manner of doing job & timining performance of job when done in best manner.  Time study work is divided into elements of operations.  Attempts are remove uscless motions & improve combinations & sequence of motion & op.  Motion Analysis  Best method determined by analysis of methods of equipment used

Write short note on -Oves-6) 1) Methods study & work measurement which are used in examination of WORK STUDYhuman work all context & Systematically investigate au targets. 8) Aims au finding best & most efficient way using avail resources men, mat 4 meeting 1) Methods study can be made by help of both motion study & Time study. METHOD STUDY-2] B) The method study programme must include following features -- Uniform application. - Established stand practice - continuous review. - Credit distribution. A) Job evolution is ranking, grading 4 weighing of essential work characteristic of all job in order to find rare 3) JOB EVOLUTION worth of Jobs.

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employees. 8007777042

-9It is systematic approch to ascertain

labour with each job is v. imp of

- : The system of valuation which are commonly adopted given -
- J Ranking / Grading 2) Factor 3) Point raing method.

  method.

  method.

Ques-1) what is Scheduling!!

- Scheduling is process of arranging, controlling & optimizing work & workloads prod process.
- Scheduling technique is an important technique of determining starting & completion timing of each op.
- Scheduling depends upon no of factors, routing method of prod<sup>n</sup>, quantity of prod<sup>n</sup>.

Ques-8) what are principles of scheduling &

A] Principle Optimum

task size

prod plan

- It is imposes - work

an equal/even norma

load on plants/ Pn s

are small de task are
AKASH AGARWAL CLASSES
OF Same Order.

- Scheduling tends to

achieve its max.

Facilities 8007777042

normally used

c) Prin. Optimum

Operation sequence

Chicago,

Pn same sequen

dress will

Explain relationship between Routing & scheduing??? Ques-9]

- 'Routing' & 'Scheduling' are interconnected & I either of these activities cannot undertaken independently
- etermining touting of sequence operation.
- · Scheduling is equally important for routing.
- so, we can conclude that, Routing & Scheduling are inter-releated, inter-connected, inter-dependent activities. of production planning.

Ques-10] Explain lean operation?

- Lean op has roots in "Toyoto Auto comp" .... j of Japan. where waste was to avoided at east costs:
  - a) Waste in time caused by having to repair faculty products.
  - b) waste of investment in keeping high inventories.
  - c) waste of having idle workers.

Elements of lean production are -

To consideration org:

in terms of supply chain

of value streams that extends

from supplies of Raw mate.

Or consideration org.

Or organise in worker

in teams to have every

one in org. conscious

his work.

3 To operate facility
in Just-in-time mode

Define simulation?!

It involves developing a model of some real-phenomenon & performing experiments on model evolved.

It descriptive 4 not Optimizing technique.

Ques-11]

Ques-12] Explain Just-in-time (JII) 121

- · Objectives of JIT manufacturing
- 1. (Specific goal of JII)

  (manufacturing is)

  to provide Right and
  ylevel

determine Right JII

this to build only
customer want

A) Produce only products
(goods & services) wants.

D] Produce minimum possible

lead times:

- B) Produce product only as quickly as customer want to use them.
- E) Produce products features
  that customer want

9 Produce product with perfect quality. occupational der workers.

· Overview of JII manufacturing,

Inventory Reduction.

Quality Improvement

Total prev. maintainece

strategic gain.

Lead Time reduction Continuous Improvement

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Ques-13] Explain line talancing ???

line balancing means—

The apportionment of sequential work

activities into work stations in order to gain a high

willigation of labour & equipment & minimize idle time."

Ques-14) Explain Transportation model ???

Transportation model deals with transportation of product manufactured at diff plants or factories to no of diff warehouse. (demand destinations)

satisfy destination within plant cap constraints at mini. transp.cost.

विधा परमं बद्धा

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## 5. PRODUCTIVITY MANAGEMENT & QUALITY MANAGEMENT

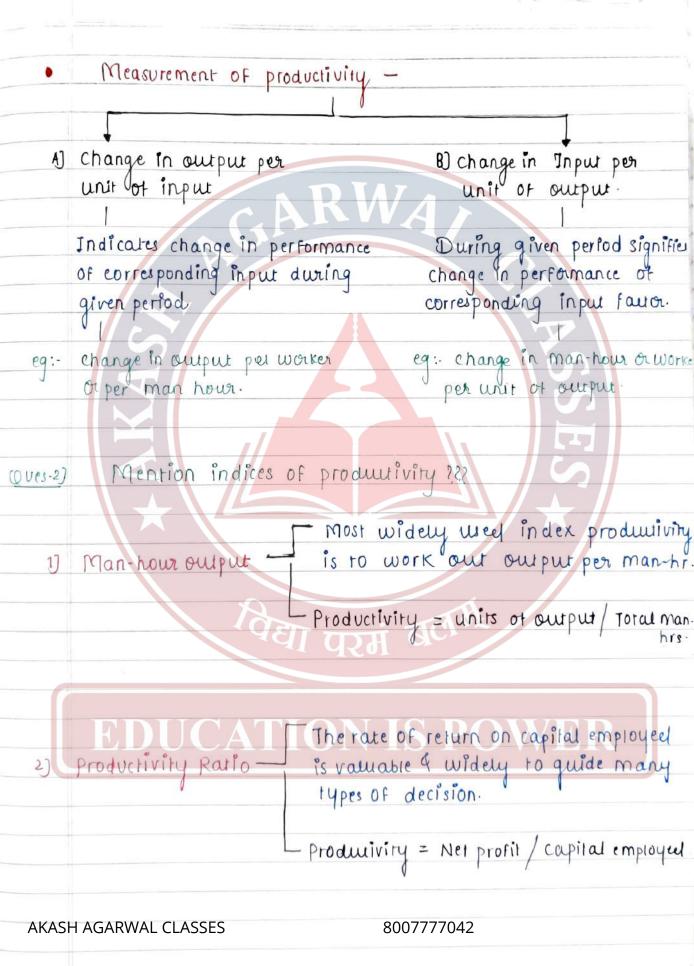
	CARVV	4 /
Ques-1] A	bout production & productiv	ity ???
Basis of	Production	Productivity
comparison		
1 Meaning -	Prodn is function of an	Productivity is a measure of
	organisation which is a	how efficiently resources are
	associated with conversion	combined & willised in Firm
	of inputs into destreel output	for achieving desired outcome
97	* \	
री what it is ११	Process	Measure
3] Represents-	No. of units produced	It is measure of how much
	विधा परमं	inpur are req to achieve olp
	4 9801	
		P = owput
	DUCATION IS	input
		DIUWER
4) Francisco	Absorre	
4) Expression-	Absolute terms	Relative terms.
4		
5) Determines-	value of O/P	Efficiency of factors of

- · Importance of concept of produtivity can view-
- I) To beat the competition 
  : It is an age of cut-throat competition.
- Guide to management 
  The productivity indices are very useful for management & can be used for diff. purposes.
  - a) Strategic b) Tactical () Planning d) Administration
- In economically backward countries, productivity mammer is basic aspect of progress.
- 4) Maxi. Utilisation of scare resources -

The productivity process & techniques are designed to facilitate more efficient work involving less fatigue to worker by improvement in layout of plant of work.

The brings improved working conditions, better wages & salaries to workers, better labour welfare autivities to labourers.

- 6) Other Uses
  - i) Higher productivity increases profits & reserve funds of industry that can used for expansion & modernisation.
- ii) Increases goodwill of firm due to cheaper goods to public, AKASH AGARWAL CHASSES aff & more propper 7777042



There are many situation when time standards cannot be set therefore, it is very difficult in 3) Use of Financial Ratio. Such cases to measure productivity. Productivity = Added value/Labour (0) produtivity = Added value/conversion Manpower productivity = value of o/p q 000 No- of man/workers his to used-Other useful measures in Mat. produtivity = value of opp good 4st unit (cost) mat used (iii) Cap. productivity = value of Olp goods 4 ser

### EDUCATION IS POWER

= Energy produtivity = value of 0/p goods/services

units (cost) of energy used

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(i) Grerry productivity = value of olp goods is

capital assel employer

value of (lab+ cap+ max

Ques-3] productivity or how to increase productivity: What are tools of

- · The productivity of an enterprise can improved by improving performance of various input & other Factors productivity.
  - A) More workers participation in mant or in decision making through joint consul-1. HUMAN
  - -B) Improving communication services. ASPECTS
    - c) Improving mutual trust & cooperation through improve job procedures, better training employees, lab welfare programme

A) Improvement in nature & quality of raw material 4 their supplies to work.

- B) Proper provision of plant, equipment 4 maintenece.
- c) Intro of more 4 more machaeque, place in work.

### EDUCAT

wastage -

A) work, time & motion studies to determi better way & means of doing job.

- B) Implementing various simplification, specialisation & standardization progra
- 1) Improving 17777047 on technique minimize

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SUPPLY

OF

INPUTS

TECNOLOGY

ASPECTS

3.

: Following Factors affecting productivity -

#### 1. TECHNOLOGICAL DEVOLPMENT

- U Size of Plant
- 1) Reasearch & Development
- 3) Machine 4 equi-Design
- 4) Power, Raw, Mat

- Size of plant & cap utilization has direct bearing on productivity.
- R&D may yeild

  better method of

  work & better

  design quau: work.
  - Wheather design

    of machinery &

    equip is modern &

    keeping with

    limitation & cap.
- Improve quality of raw mar &

of power.

2. SCIENTIFIC

MANAGEMENT/ Individual Factor

- Individual factor such as knowledge, skill, attitude also affect productivity of industry.
- knowledge is acquired through training, education & Inton part of learner.
- Increase knowledge, skill aprilude certainly increased the productivity.

### 3. ORGANISATION FACTOR

- Organisation factor include various steps taken by orgetowards maintaining better industrial relation such as -
- delegation, decentralization of authority, wage salary level, incentives, Merit rating etc.
- This facts were brought out by 'Hawthorne' experiment in U.S.A.

#### 4. WORK ENVIRONMENT

The importance of proper work environment & physical condition on job has been emphasised by industrial physchologist & human engineer.

#### 5. OTHER FACTORS

1) Natural factors

2) Managerial Grantor

3) Government

- Physical, geographical, & climatic condition influence produtivity
- The industrial productivity is influence very much through managerial ability & leadership.
- Government policy towards industry also contribute to inclustry productivity.

LALEN

### Ques-4) what is Total quality management (TQM)???

- A philosophy that involves everyone in organisation in a continual effort improve quality & achieve customer satisfaution.
- · Basic concepts of TOM-
  - 1. Top management commitment & support.
  - 2. Focus on both internal & external customer
  - 3. Employee involvement & empowerment.
  - 4. Continuous improvement (KAIZEN)
  - 5. Partnership with suppliers
  - 6. Establishing performance measures for process.
- · Tam is "Japanese" approch quality.
- · Tam refers quest-quality in organization.
- · 3 philosophies of Tam -

# i) Never-ending push to improve, which referred Continuous improvement DOMER

ii) Involvement of every employee in org.

iii) Goal for customer satisfaction which means meeting.

Ques-s)

ISO STANDARD BASIS -

- A) Many international business recongnize importance of quality certification
- B) The EV, 1987 established ISO (International organisation for standardisati) 9000 certification.
- c) Two most well known of these " ISO 9000" 4" ISO 14000"
- \_ D) ISO 9000 :- It pertains to quality mamt It concern on what organization does ensure that product or service.
- E] ISO 14000 :- It concern minimization of harmful effects to environment eausal by operation.
- -F) ISO 9000 composed national standard bodies of 91 countries : 90 countries have adopted 150 9000

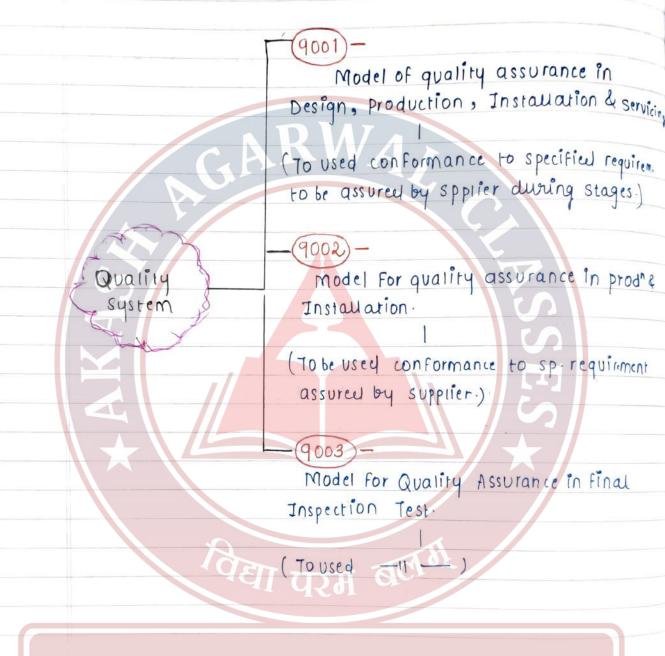
national standard

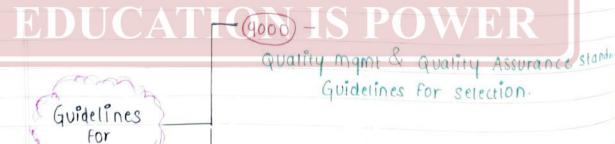
- G) ISO certificare is elaborate & expensive pro.
- H) There are essentially 5 standards associated with Iso 9000 series.
  8007777042

Quality Certification

**EDUCA** 

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9004

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Use

8007777042 mgm & Quality System eleming

# 6. PROJECT MANAGEMENT

Ques-1) Descrîbe Project planning in detail !?!

- Project planning is part of project mami, which relates to use of schedules such a Gantt charts to plan.
- Project management is discipline of organizing 4 managing resources (cg. people)

in such a way that project completed within scope, quality 4 time 4 cost.

- · A project is temperory & one-time endeavour undertaken to create a unique product on service, which brings about beneficial change or added value.
- The first challange of project management is to make sure that project is delivered within define constraints.
  - Second, more ambitious chauenge is optimized allocation & integration of inputs needed to meet pre-defined objectives.

to complete work are listed or grouped.

- The logical dependencies between task are defined using autivity network diagram identification critical path.

AKASH AGARWAL CLASSES time is sche8007777042n calculated p.m softwar

Ques-2) what is Gantt chart ???

Ganntt Chart is-

- · Gantt chart principle tool used in scheduling & also in some methods of loading chart was originated by American engineer "Henry · L" Gant
- · It consist of simple rectangular grid, divided by series Of parallel horizontal & verticular lines.
  - · The vertical always divide horizontal scale units of time.
    - · The time units can be in years, months, weeks, days
- · In this chart, time which an activity taken in complete task represented by horizontal lines.

### The Institute Of Cost Accountants of India

- · Horizontal lines divide chart into sections which represent various work task on work centers.
- when it shows only work task-products, orders or operation to be completed is called work schedule.
- When it shows same task opposite work centers to be completed is caused produced, workshops, machines caused Load chart.

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The units schedule or loaded these chart always same.

### Ques-3] Define Network Analysis with Important Analysis ???

- 1) Routing is first step of production planning
- 2) In small projects, routing is very simple.
- 3) Sequence of operations can performed one after other given sequence.
- 4) But in large project, this is rather difficult problem.
- 5] In such cases, a through study is required to collect complete détails about project then finel out new better & quicker way to get work in decene way
- 6] first step is draw some suitable diagram snowing various autivities to their position project.
- 1) such diagram is cavey Network Diagram.
- 8) It can be collection of minute details involved only gross outline of general Functions.

Ques-4)	what is difference between	PERT & CPM
ř	PERT	CPM
-		,
1)	It is technique for planning	It is technique for planning
	whose Scheduling & controlling	scheduling & controlling of
	Of project autivities are subject	projects whose activities not
-	of project autivities are subject to uncertainty in perfor Time.	subjected to any uncertainty
~		4 perfor time are fixed.
· //		
2)	It is probabilistic model.	It is deterministic model.
	1 2 3 7 4 2 7 3	(****
3]	It is event oriented system.	It is activery orienzed system.
4)	Basically does not differencial	clearly differentiate critical
	eritical 4 non-critical autivities	· 4 non-critical activities.
à .	+ 1/4	
5]	svitable for Reasearch 4	Suitable For civil construction
	development project where	The contained of the co
	times cannot be predicted.	1
per met	विद्या परमं वर्ष	A of
	ता तरभ ल	

Ques-5) Critical path analysis is project management to? Explains

- · Critical path analysis (CPA) is project mgmt tool that:-
- 1) Set our au autivities

  (individual) that make up

  larger product.
- 2) Shows Order in which activities have to be undertaken.

- 4) Shows certain resources
  will be needed eg:- a crane hirey for
  building site.
- 3) shows which activities can only taken place once other activities have complete
- · Then CCPA) 9s drawn up based on dependencies such as-
  - 1) The availability of labour & other resources.
    2) lead time for delivery of material & other services
  - 3) sea sonal factors such as dry weather required building project.

Ques-6) State important concept of Network Drawing ? ??

- depicting au Operation involved à project?
  - · Network is constructed essential maintain relationship between various autivities of project.

Network drawing can start with defining some key terminology

### ACTIVITY

PREDECESSOR activity
SUCCESSOR

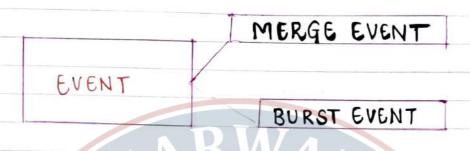
CONCURRENT

- \* In network diagram. An activity depicted by single arrow (+)

  This is not scaled & Such length has no bearing on time activity.

  The length of activity arrow is drawn conveniently so clarification relationship activity proper.
  - PREDECESSOR Activity means autivity must be completed prior to start of an autivity.
- SUCCESSOR Activity cannot started started until are or more other autivities which can occur simulareums
- CONCURRENT Activities means autvities which occur simultaneously.

65



START Activity FINISH EVENT EVENT

- An event represent specific accomopiishment in project take place particular instant of time does not, consume time or resources. It is also known as "Nodes"
- · MERGE Event where more than 1 auivity ends.
- · BURST Event from where more than 1 activity starts.
  - · START EVENT are also caucu Tail event.
  - · Finish Event are also called Head event.

### Ques-7)

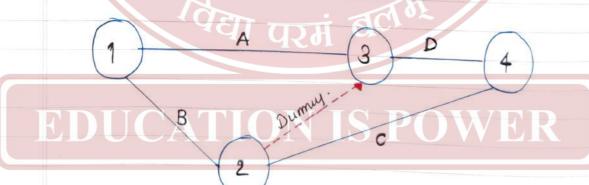
Explain concept of Dummy activities ???

#### DUMMY ACTIVITY

- It is very common feature in project also it can happen that & activities having same start 4 end evenus.
- · Hence, as a rule there is only 1 arrivity between 2 events with use dummy arrivity, other events can introduced unique end events.
- Dummy autivities consume no time or resource.

  In network diagram these are represented by dashed arrows

  (-----) & inserted network pattern for rowing situation
  - a) To make activities with common start 4 end events distinguish
    b) To identify & maintain proper precedence relationship
    between activities are not connected by events.



## 7. LCONOMICS OF MAINTENANCE & SPARES MGMT

what about mainine maintenance ??? 0.1)

A) Machine maintenance me ans by which mechanical asser in Facility are kept in working order.

B) It involves regular servicing equipment, routine check, repair work

c] It include both heavy-duty indusinal equipment & simple hand op maines.

D) It may also done proautively as preventive

EDUCA Predictive maintainence.

Ques. 2) What is mean by	PREVENTIVE	MAINTENENCE ???
--------------------------	------------	-----------------

- A system of Scheduled, planned or preventive maintence tries to minimize problems of breakdown maintence.
- 2) It locates weak paris in all equipment, provides regular inspection & minor repairs reducing danger unanticiparen breakdowns.
- 3) Maintenence dep depending on size of plant generally takes Up preventive maintenece work.
- 4) Preventire maintenece is costly affairs, is better to main records of cost (both mat & lab | Spares)
- Advantages of preventive maintenance -
  - A) Reduced breakdowns 4 downtime.
  - B) Greater safety to worker.
  - fewer large scale repairs
    Better quality product
    Increased equip life

  - Better industrial relation

#### CA SHRUTI AGARWAL Ques-3] CMAINTER OM THEORY BHI HAI ZARURI

- A) Maintenance Techniques
- Insome cases, loss & Inconvinience due to breakdown of equip is so high that Standby equip.
- If original equip fail, the stand by facility employed to avoid interruption a downtime

- 8] Maintanence Orgnization
- of investment of any org is spent on building & prod Facility.
- For effective

  contribution of work,

  maintenance dep

  must have proper

  Place in org & also

  in good organization

  Struute.

- g Organising Maintenance Work
- In order to facilitate proper control of maintenance work-
- DJ Maintenance Request
- -This must be made in writing to central point in org.
- No work should be carried out who knowledge & approval of maint. & supervisor.

- E) Maintenance Stores
- -Non-availability of vital spare paris when required meet an emergency like breakdown least to excessive shout down of plant 4 equip.
- A proper stores mgmt
  is essential mgmt
  as backup service of
  good maintenance.

()

### Q.4) what is Breakdown maintenance???

- Production facility is run without much routine maintenance until it is breakdown.
- For repair & inspected find out defeus.
- After identifying defeut, required repair planned & spares are procured.
- Machine used during repair period, productions are lost due to reduced productivity.

Ques-5) what is objectives of maintenance???

- 1) To keep all prod facilities & other allied facilities such as buildings & power Supply system.
- to products & time schedule
  of delivery to customers.

- 3) To keep prod cycle with stipulated range,
- AJ To modified maenine tool Meet augmented need For production.
  - 5) To improve existing maurine tools & avoid sinking allel capilor

800 k777 042 in cost as min as far as post

ques-6) Explain spares parts of management???

- · Spares parts are categorized in 2 main groups.
  - are those usually 4 are those that tequired hardly ever required.
- The managers comes aurosly in difficulties to keep tracked of spare part used & determine demand manually
- The main objective is project is to create database mant system will help of manager supervising spare parts.
  - · System Should do following keep track-
  - a) keep record of spare parts required particular type of maintanance.
  - b) Keep record of spare parts received used in past.
  - c) keep record of spare parts vendor.
  - d) forecast future demand for fast moving spareparts on past consumptions-

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what are diff types of spare parts ??? Ques -7] i) The spares parts required & substantial a regularly number Regular Sparesii) Both reliability & per. Unit cost of these ilems are less. i) An insurance spare is spare part that you hold in your spare parts inventory. that you would not except use, Insurance Spares ii) in normal life of plant & equip. If it is not available needed would result in significant losses. i] Capital spares are spare parts which, although acknowledged to have a long CAPital Spares. life OR -ii] small chance of failure, would cause a long shutdown equip. EDUCAT il Rotable items are those îtems of plants & assets that periodically are changed out of repair & overall. Rotable Spares-The management of rotable îtems & repairate spares parts is diff to many of other invertory

Item -

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Ques-8]

what are maintenance problems ???

• The main problem in maintenance analysis to minimise overall cost of maintenance without scaring objectives.

There are 2 atternatives before mant

n Repair a machine or equip only when it break down.

2) Replace equip before the expiry of working life

This will save exp. of inspection & replacement of part before lifetime ends.

This will involve cost of periodic shut down for checkups & repairs.

There are 2 types of cost

A] Cost of Premature
Replacement

8) Cost of breakdown.

- Need to be balanced.

The obj. is minimise tolal maintenance cost & downtime.

परम बद



SONAL S.

90

ANSHR.

86

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TIRTH K.	88	VIDYA T.	82
VARSHA	88	KUSUM G.	82
TANISHA J.	88	LALIT P.	82
ANJALI G.	88	DEVESH.	80
	100		(2.5)

88

86

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KRISHNA G.

RITIKA J.

80

80

& STILL ROHAN P. 80 RUKSANA COUNTING 80 YASHAN S. BHARTI S.



CA Shruti Agarwal



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OM D. 358 Marks



ABHINAV N. 352 Marks



SUNDARAM D. 350 Marks



AKSHAT G. 350 Marks



VIDHI J. 342 Marks



SHUBHAM S. 342 Marks



RUSHIKESH B. 338 Marks



KANIKA G. 336 Marks



KHYATI B. 330 Marks



AYUSH S. 330 Marks



PUNEET Y. 328 Marks



VISMAYA R. 322 Marks



ANKIT K. 322 Marks



CHIRAG K. 322 Marks



PIYUSH M. 320 Marks



JANVHI N. 318 Marks



ARYAN C. 318 Marks



NEHA S. 318 Marks



NIKITA P. 316 Marks



TASMEET S 316 Marks



ARYA J. 314 Marks



TANISH A. 310 Marks



ARYA B. 310 Marks



VAIBHAV C. 308 Marks



PRATHMESH B. 308 Marks



YASH D. 308 Marks



SHRINAASAN L. 308 Marks



DIYA G. 306 Marks



PIYUSH G. 302 Marks



AAKANKSHA C. 300 Marks



MADHAV G. 300 Marks



# CMA FOUNDATION DEC 2021 Results

350 + SCORERS









**356 MARKS** 



PRIYANKA SHETTY 356 MARKS



**GR NAMITHA 352 MARKS** 







## CMA FOUNDATION JAN-23 GLORIOUS RESULTS



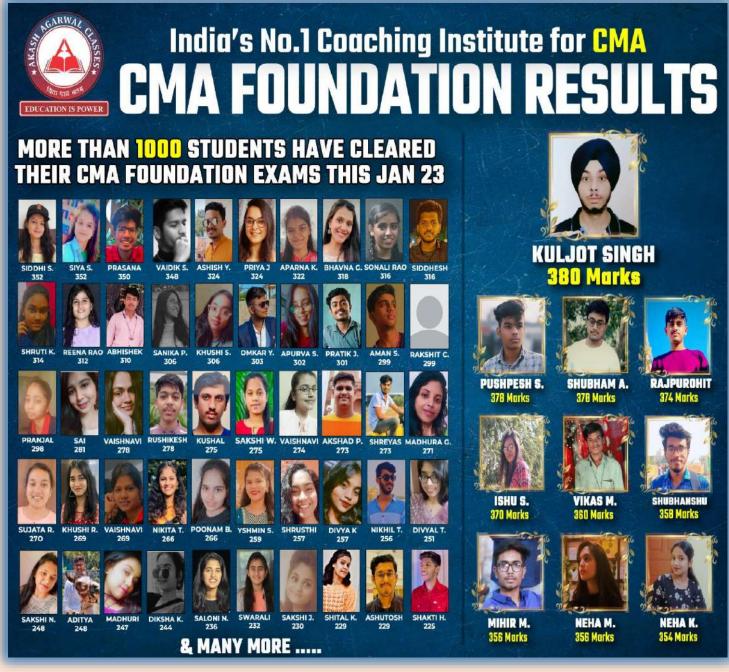
## CMA FOUNDATION JAN 23 350+ SCORERS





### AAC = CHOICE OF CMA STUDENTS







.... NEXT CAN BE YOU!!

## CMA FOUNDATION JAN-23 GLORIOUS RESULTS



## **AKASH AGARWAL CLASSES** GMA FOUNDATION

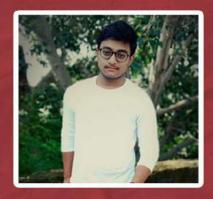
## TOP 3 S(ORERS!!!



**KULJOT SINGH** 380 MARKS



**PUSHPESH SHARMA** 378 MARKS



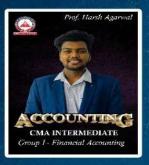
SHUBHAM AGARWAL 378 MARKS

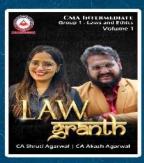
CONGRATULATIONS !!!



### **OUR PUBLICATIONS**

### 1) REGULAR BOOKS















### 2)SUMMARY/QUESTION BANK









### 3)SUCCESS BATCH BOOKS

















