

### CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY HEAD OFFICE: GUINDY, CHENNAI - 600 032. ACADEMIC CELL

### THIRD SEMESTER EXAMINATION - JANUARY - 2022

Duration 3 Hours

Max. Marks: 60 Date: 03.01.2022

Course : PGD - PPT Subject : Plastics Materials –III

Time: 10,00 a.m. to 01.00 p.m.

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IDO NOT CHANGE SEQUENCE OF QUESTION NUMBER IN ANSWER SCRIPT	i
<u>PART – A</u> Answer <b>all</b> questions	30 x 1 = 30
Liquid crystalline polymer are known as self-reinforced polymer. Say True or False E-caprolactam is the monomer of	
a) Nylon-6 b) Nylon 66 c) PC d) None of These Plastics are light, strong and durable. Say True or False Which is an example of thermosetting plastics?	
a) Polystyrene b) Polyethylene c) Bakelite d) PP The suitable material for X-ray film is a) PBT b) Nylon 6, 6 c) PET d) PPO	
Linear polymers are normally a) Thermosetting b) Thermoplastics c) Elastomeric d) Having extremely high softening point	
PC/ABS is an a) Blend b) Alloy c) Copolymer d) None of These A miscible polyblends exhibits a single Glass Transition Temperature (Tg). Say True or False Benefits of polymer blending a) Synergistic combinations of blending ingredients improve Mechanical Properties b) Improve Bio-degradability c) Improved recycling Characteristics d) All of These.	э.
The physical mixture of two or more polymers that are not linked by covalent bonds is called	
a) Polymerisation b) Dendrimer c) Polyblend d) Multiblend Polymers are dissolved in common solvent to give a) Mechanical blends b) Solution-cast blends c) Latex blend d) Chemical blends	
The immiscible blends exhibit	
a) Unvulcanized b) Vulcanized c) Stretched vulcanized d) Stretched unvulcanized	
How is the hardness of an elastomer measured?  a) Bloom b) Brinnell hardness test c) Rockwell hardness test d) Shore duromet What is the thermal conductivity of rubber?  a) 0.04 W/m °C b) 0.16 W/m °C c) 0.64 W/m °C d) 1.12 W/m °C	er
The loss of heat in elastomers due to friction is known as  a) Resilience b) Hardness c) Resistivity d) Hysteresis	



18. Jute fiber is a fiber. 19. Neoprene is the family of	
a) Synthetic Rubber b) Thermoplastics c) Thermosets d) None of These	
20. These polymers consist of coil-like polymer chains:	
a) Thermoplastics b) Thermosets c) Elastomers d) All polymers	
21. Elastomers are?  a) Thermosetting material b) Exemplified by protein derivatives  c) Having high flexural strength d) Having very high tensile strength and heat resistant	
c) Having high flexural strength d) Having very high tensile strength and heat resistan	ce
22. Function of Fillers is	
22. Function of Fillers is a) Increase Conductance b) Reduce Shrinkage c) Increase Stiffness and Hardness d) Increase ability to shock	
c) Increase Stiffness and Hardness d) Increase ability to shock	ad to 11 V liabto
23. UV stabilizers are added to plastics to increase the life of plastics, especially when expose Say true or false.	a to o.v lights
24. Function of Plasticizer is	
24. Function of Plasticizer is	
c) Increase electrical Stability d) Improve Strength	
25. Halogens are used as in plastics. a) Flame Retardant b) UV light absorber c) Antimicrobial d) Antistatic agent	
26 Keylar is commercial name for	
26. Kevlar is commercial name for a) Glass fibers b) Carbon fibres c) Aramid fibers d) Cermets	
27. Which of the following fibres is used for making parachutes?	
a) Plastic b) Terelyne c) Nylon d) Steel	
28. Talc is  a) Hydrated Al silicates  b) Hydrated Magnesium silicates	
a) Hydrated Al silicates b) Hydrated Magnesium silicates. c) Mixture of Al & Magnesium silicates d) None of these.	
29. Which of the following material is a mixture of two fibres?	
a) Jute b) Polywool c) Polyester d) Nylon	
30. What is the other name for artificial silk? a) Nylon b) Rayon c) Acrylic d) Polyester	
a) Nylon b) Nayon c) Aciylic d) i olyestel	
<u>PART – B</u>	
Answer all questions (Max. 40 words)	$4 \times 2 = 8$
What is a lubricant? Name the types of lubricant.	
What is the difference between Flexible- PVC & Rigid-PVC?	
3. What is the Flame Retardant? Give an Example.	
4. What are the different types of Polyblends?	
<u>PART – C</u>	
Answer any <b>four</b> questions (Max. 100 words)	4 x 3 = 12
What are the Natural fibers? Explain with Example.	
<ol> <li>Write briefly about PP-EPDM blends</li> <li>What are the technological requirement of additives.</li> </ol>	
Write Short Note on a) Impact Modifiers b) FRP	
5. What is the difference between blends and Alloys ?	
DADT D	
PART – D Answer any <b>two</b> questions (Max. 300 words)	2 x 5 = 10
Answer any two questions (max. 500 words)	2 X 3 = 10
1. Describe about compounding of PVC for rigid pipes with the help of High speed mixer? Exp	lain briefly.
2. Briefly explain the Blowing Agent and its function.	
Write short note on Compounding Techniques.	



### CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY HEAD OFFICE: GUINDY, CHENNAI - 600 032. ACADEMIC CELL

### THIRD SEMESTER EXAMINATION - JANUARY - 2022

Duration 3 Hours

Max. Marks: 60

Course PGD - PPT
Subject Plastics Processing Techniques-III

Date: 04.01.2022

Time: 10.00 a.m. to 01.00 p.m.

### (DO NOT CHANGE SEQUENCE OF QUESTION NUMBER IN ANSWER SCRIPT)

### PART - A

30

	Answer all questions	$30 \times 1 = 3$
1.	In the gas assisted injection molding the gas injection can be done through	
	a) Nozzle b) Mould c) both (a) and (b) d) none of above	
2.	FRP "I" beams are produced by	
	a) Matched die b) pultrusion c) Filament winding d) centrifugal casting	
3.	The blowing agents added in EPS molding is in the range of  a) 2-3% b) 15% c) Up to 8% d) None of the above	
	a) 2-3% b) 15% c) Up to 8% d) None of the above	
4.	In thermoset molding screw root is	
	a) Tapered b) Straight c) First tapered the straight d) none of above	
5.	Thin wall moulding requires injection machine. a) Low pressure b) Standard pressure c) High pressure d) None of the above	
	a) Low pressure b) Standard pressure c) High pressure d) None of the above	
6.	Operations in all electric injection molding machine are carried out by a) Hydraulic oil actuation b) Pneumatic air actuation c) Servo motors d) None of	
	a) Hydraulic oil actuation b) Pneumatic air actuation c) Servo motors d) None of	these
7.	Gas assisted injection molding can produce moldings with weight and cycle time also	
	a) reduces b) increases c) does not change d) all of above	
8.	Thermoset injection molding is used to mold electrical parts that are require	
	a) Dimensional Stability b) Electrical Insulation c) Both a) and b) d) None of these	•
9.	In Co-injection it is always preferable to use	
	a) A more viscous material as the core b) A less viscous material as the core	
	c) A more viscous material as the skin d) None of above	
10.	. Yogurt cup is manufactured by	
	a) Conventional Injection Molding b) Reaction Injection Molding	
	c) thin walled injection molding a) hone of these	
11.	FRP pipes with better optical property is produced by a) Filament winding b) Centrifugal casting c) pultrusion d) none of these	
40	a) Filament winding b) Centrifugal casting c) pultrusion d) none of thes	e
12.	a) Pipes b) Hoses c) Mobile phones d) Films	
40	a) Pipes b) Hoses c) Mobile priones d) Films	
13.	a) PC b) PET c) PVC d) PP	
4.4	The shot conscitute the the transport modeling should be	
14.	The shot capacity of the thermoset molding should be	
1 =	a) Less than 20% b) More than 80% c) Between 20% to 80% d) None of these	
15.	Structural foam molding is b) High pressure process c) Both A&B d) None of the	
16	The compression ratio of Thermoset corousis	<del>C</del> S
10.	The compression ratio of Thermoset screw is is used.	
17. 1Ω	The most commonly used EPD mould material is	
10.	The most commonly used FRP mould material isFRP technique.	
20	type of Glass fibre is mostly used in FRP Fabrication.	
21	In thermoset injection molding process water Jackets are using for heating - say True or F	alse
	. Multiple nozzles are possible in a single part to allow large surface area in Structural foam N	
~~.	process - say True or False	noiding
23	All electric machines can achieve 40 -80% energy saving - say True or False	
	FRP boats are made up of FRP hand lay up process - say True or False	
	The recycling triangular logo with No.6 is used for Polypropylene – say True or False	
	Abbreviate MSW	
	Abbreviate DAP	
	Abbreviate UF	
	Abbreviate DMC	
	Abbreviate RRR	

### PART - B

Answer all questions (Max. 40 words)

 $4 \times 2 = 8$ 

- 1. What is Co-injection molding?
- 2, Classify the FRP process.
- 3. Name three temperature zones in thermoset Injection molding machine barrel
- 4. Why size reduction of the waste plastics products is necessary?

PART – C
Answer any four questions (Max. 100 words)

 $4 \times 3 = 12$ 

- 1. Define structural foam molding and write down the materials used in Structural foam molding?
- 2. Write a note on advantages and disadvantages of all electric injection molding machine.
- 3. List out the drying equipments and brief about Dehumidifier.
- 4. Write short note on Pultrusion.
- 5. Write down the types of wastes and sources of plastics waste?

### PART - D

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Answer any **two** questions (Max. 300 words)

 $2 \times 5 = 10$ 

- 1. Explain about Gas assisted injection molding process and benefits of GAIM...
- 2. Explain usage of Robots in injection moulding process and automatic material handling systems?
- 3. What are the various recycling techniques used to recycle the plastic waste? Explain the each technique.



# CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY HEAD OFFICE: GUINDY, CHENNAI – 600 032. ACADEMIC CELL THIRD SEMESTER EXAMINATION – JANUARY - 2022

Duration : 3 Hours
Course : PGD - PPT
Subject : Plastics Testing-III

a) 5 kg

b) 1 kg

Max. Marks: 60 Date: 05.01.2022

Time: 10.00 a.m. to 01.00 p.m.

### (DO NOT CHANGE SEQUENCE OF QUESTION NUMBER IN ANSWER SCRIPT)

<u>PART – A</u> Answer <b>all</b> questions	30 x 1 = 30
1. The limiting Oxygen Index (LOI) is the minimum concentration of expres	sed as a
percentage that will support combustion of a polymer.	
a) Nitrogen b) Hydrogen c) Oxygen d) None of these	}
2. Expand VCM :	
<ul><li>3. The IS standards for testing of Water Storage Tank is</li><li>a) IS 2508</li><li>b) IS 4984</li><li>c) IS 4985</li><li>d) IS 12701</li></ul>	
4. Pie Tape is used for measuring	
a) Outside Diameter b) Inside Diameter c) Wall Thickness d) Length	
5. MFI Test Condition for HDPE pipe is	
a) 190°C /2.16Kg b) 190°C /5Kg c) 220°C /2.16Kg d) 250 °C /2	2.16Kg
6. Which of the following ASTMD test method is applicable for Smoke Density.	40
a) ASTMD 2843 b) ASTMD 732 c) ASTMD 790 d) ASTMD 34	-18
7. Non-Destructive testing plays an important role in.	ntitativa analysis
<ul><li>a) Quality Control</li><li>b) Production Control</li><li>c) Planning Control</li><li>d) Qual</li><li>8. What is the purpose of Salt-spray test?</li></ul>	illialive analysis
a) To evaluate printed surface	
b) To evaluate electroplated Parts	
c) To evaluate Printed surface and electroplated Parts	
d) None	
9. Expand SDR:	
10. Which of the following is not a characteristic of LASER?	
a) Monochromatic b) Coherent c) Divergent d) Intense	
11. Identify the type of destructive testing?	
a) Radiography Test b) Dye Penetrant test c) Creep Test d) Visu	al Test
12. In which of the following materials, ultrasonic testing cannot be used?	
a) Plastics b) Ceramics c) Non ferrous Object d) Ferrous Object	oject
13. Expand DSC:	
14. Reversion Test is done on Woven Sacks –say True or False	
15. Destructive Tests are generally much easier to interpret than the Non -destructive tes False	ts-say True ог
16. As per IS 4985 the value of Opacity tester shall not be more than 0.2 % -say True/Fal	se
17. Which of the following components of the X-ray fluorescent spectrometer induces fluoradiation?	rescent
a) Excitation source b) Energy analyser c) X-ray spectrometer d) Detection	ction System
18. The energy of the emitted X-rays depends upon the of the atom and their	intensity
depends upon the	
a) Atomic number, amount of sample b) Mass number, amount of sample	
c) Mass number, concentration of atoms d) Atomic number, concentration of atoms	
19. Expand NDT:	
20. As per IS 4985 the dead weight used for determination of VST is	

c) 8 kg

d) None of these



_	, all the operations are per tronic devices-say True o		y, thus it does r	not require any
	sin at 23°C when tested		esting of rotatio	nal molded PE water
	b) 940 to 960 kg	ı/m³ c) 950	to 965 kg/m³	d) 889 to 932 kg/m <sup>3</sup>
-	getic radiation source red		_	
	sensitivity b) To provid	· · · · · · · · · · · · · · · · · · ·	10	
	er range d) To reduc		ground	
	is used for determinatio			
a) ASTM D2863	b) ASTMD 1238	c) ASTM	D1525	d) ASTMD 732
25. Expand XRF:				
26. Fluorescent X-ray sp	ectrometers would require	re only moderate-	intensity X-ray	tubessay True/False.
27. Write the unit of VST	· ?			
a) V/mil	b) g/cc c)	) <sup>0</sup> C d	) %	
28. As per IS 4985:2000	, class 3 pipes indicates	working pressure	(PN) of 8.0 kg/	/cm²say True/False.
29.MFI for PVC resin.				
a) 10g/10 min 30.The oil heating rate u	b) Can't be Conducte	ed c) 20	g/10 min	d) 50 g/10 min
a) 50 °C/ hour	b) 120 °C/hour.	c) Both	d) None	e of these
	D/	ART – B		
		stions (Max. 40 w	ords)	4 x 2 = 8
1. Define Smoke Densit	XV.			
2. What do you mean b				
3. Define Non-Destructi	ve Testing (NDT).			
4. Define Net Capacity	and Gross Capacity as p	er IS 12701.		
	c	PART – C		
	Answer any <b>four</b> q		00 words)	4 x 3 = 12
4 344 21 01 1 1		:4	. C. 11	

- 1. Write Short notes on Ultrasonic methods and its application for failure analysis in plastics.
- 2. Explain Flammability (UL-94) and its application.
- 3. What is Salt spray testing and explain its application.
- 4. Write down the application of Plastics Foams.
- 5. Write down the application and advantages of Non-destructive testing.

PART – D
Answer any **two** questions (Max. 300 words)

 $2 \times 5 = 10$ 

- 1. Write down the different test of Woven sacks as per IS 14887 and explain any three tests.
- 2. What are the different type of failure analysis of plastics product, and explain any two .
- 3. Explain in detail with neat sketch of Limited Oxygen Index Test.



15. One who travels on foot

a. On

a. On

a. Next

Choose the correct proposition 16 She was born \_\_\_\_\_ 2005.

a. Pedestrian b. Passenger

17. My lunch period is \_\_ science class.

b. Near

b. In

b. In c. For

c. After

c. Over

18. My sister painted sheep \_\_\_\_\_ the walls of her bedroom.

### CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY HEAD OFFICE: GUINDY, CHENNAI - 600 032. ACADEMIC CELL

THIRD SEMESTER EXAMINATION - JANUARY - 2022

Duration 3 Hours Max. Marks: 60 Date: 06.01.2022 Course PGD - PPT

Subject : Communication Skills in English Time: 10.00 a.m. to 01.00 p.m.

### (DO NOT CHANGE SEQUENCE OF QUESTION NUMBER IN ANSWER SCRIPT)

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PART – A Answer all questions 30 x
Choose the right option to identify the part of speech for the underlined words in the
following sentences
1. She <u>ran</u> to the station quickly,
a. Verb b. Noun c. Adverb d. Pronoun
2. What did she ask you to do?
a. Conjunction b. Proposition c. Pronoun d. Verb
3. I want to go to a <u>university</u> in the United States.
a. Adjective b.Preposition c. Noun d. Verb
4. Tara speaks English well
a. Adverb b. Verb c. Noun d. Adjective
5. After lunch let's go out for a coffee
a. Pronoun b. Preposition c. Verb d. Noun
Choose the correct passive sentences from the given options
6. I sent the report yesterday.
a. The report was sent yesterday. b. They send the report today.
c. They were sending the report yesterday. d. I don't send the report yesterday.
7. She is writing a letter.
a. A letter is being written by her b. She wrote a letter yesterday.
c. A letter was being written by her. d. I am writing a letter.
8. He teaches English
a. English is taught by him. b. English is being teached by him
c. English is teaching by him. d. English was taught by him.
9. They are building a house.
a. A house is being built by them. b. They build a house.
c. A house is built by them. d. They built a house for them
10. May God bless you with happiness!
a. May you be blessed with happiness! b. May you always be blessed with happiness!
c. God bless you with happiness. d. May you bless me with happiness!
Give appropriate words for the given statement
11. A fresher without experience:
a. Novice b. Novel c. Biodata d. Curriculum vitae
12. A place where experiments are done;
a. Laboratory b. Industry c. Scientist d. Scientific
13. The life history of a person written by himself.
a. Writer b. Autobiography c. biography d. Dictator
14. The Person in charge of a ship
a. Captain b. Driver c. Chauffeur d. Pilot

c. Driver

d. To

d. Traveller



19.	They are waiting the bus.	
	a. For b. To c. In d. Over	
20.	You can look up the word a dictionary	
_	a. In b. On c. Upon d. Near	
	pand the following abbreviation /acronyms	
	AICTE DRDO	
	PAN	
	CIPET	
	ATM	
	Sumptuous meal means a 'feast' (True / False)	
27.	There are eight parts of speech in English Grammar (True / False)	
	The past tense of 'put' is putted (True / False)	
29.	Complex sentence is a sentence which has only one main clause and no subordinate clause ( / False)	True
30.	Verb never change form (True / False)	
	PART – B	
	Answer all questions (Max. 40 words) 4 x 2 =	8
1.	Write meaning of the following idioms and make sentences.	
	a. Kill two birds with one stone b. Once in s blue moon.	
2.		
3.	Write close antonyms of the given words.	
	a. Able b. fortunate c. love d. gloomy	
4.	Make a meaningful sentence for the given words	
	a. Informal b. Feedback.	
	PART – C	
	Answer any <b>four</b> questions (Max. 100 words) 4 x 3 =	: 12
1.	What is report writing? Describe technical report with illustration.	
2.	Write three sets of dialogues between friends discussing about thair dreams.	
3.	Write a letter to the editor of newspaper concerning your view on unemployment.	
4.		
	a. Internet b. Computer c. Software	
5.	Write a letter to the training Incharge CIPET ,requesting for three days leave for elder brother marriage	
	PART – D	
	Answer any <b>two</b> questions (Max. 300 words) 2 x 5	= 10
	Write essay not exceeding 250 words indicating the role of internet in modern times.	

Write five Instructions that you have to follow in the library
 Write a letter to the editor of The Hindu highlighting the need to plant more trees in your area.

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## CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY HEAD OFFICE : GUINDY, CHENNAI – 600 032. ACADEMIC CELL

### THIRD SEMESTER EXAMINATION - JANUARY - 2022

Duration 13 Hours

Course PGD - PPT

Subject Industrial Management & Entrepreneurship

Max. Marks: 60

Date: 07.01.2022

Time: 10.00 a.m. to 01.00 p.m.

### (DO NOT CHANGE SEQUENCE OF QUESTION NUMBER IN ANSWER SCRIPT)

### PART - A

Answer all questions

 $30 \times 1 = 30$ 

1.	Costs are classified as
_	a) Indirect Cost b) Factory Cost c) Fixed or Variable d) Labour Cost
2.	Prime Cost means
_	a) Total of Indirect Cost b) Factory Cost c) Total of Direct Cost d) Material Cost
3.	"Quality is meeting or exceeding customer expectations" – this definition of quality is known as
	a) Perceived Quality b)Customer-driven quality c) One-dimensional quality d) Expected quality
	c) One-dimensional quality d) Expected quality
4.	BEP stands for
	BEP stands fora) Break-Even Point b) Break-even Product c) Break-even Price d) Break-even Part
5.	Selection and staffing are the functions of
	a) Sales Manager b) Works Manager c) HR d) Director
6.	Top management functions are the most important because this take care of
	a) Overall organization b) Specific problems c) Routine problems d) Extraordinary problems
7.	Fishbone diagrams are drawn
	a) To find customer needs b) To find the cost of quality
	c) To brainstorm causes of an effect d) To screen workers' suggestions
	SWOT stands for
9.	BOQ stands for Bill of Quantity True / False
10.	EOQ stands
11.	Behavioral groups can be classified as
	a) Primary and Secondary groups b) Small and large groups
40	c) Internal and External groups d) none of these
12.	Abraham Maslow is noted with developing the motivational theory as
40	a) One Factor Theory b) Two-Factor Theory c) Three-factor theory d) None of the above
١٥.	a) Preference b) Habit c) Motivation d) Fear
11	Depreciation is diminishing in the value of Fixed Assets due to :
14.	a) Usage b) Obsolescence c) Wear and tear d) All of the above
15	FIFO is
	Which one of these is used for motivation?
10.	a) Job simplification b) Job rotation c) Job enlargement d) Job enrichment
17	The objective of TQM is
.,.	a) To improve process b) To improve profitability c) Botha (a) and (b) d) None of the above
18	Entrepreneurs are best as: Doers True / False
	SSI stands for :
	<ul><li>a) Small Scale Industries</li><li>b) Small Size Industries</li><li>c) State sponsored industries</li><li>d) None of these</li></ul>
20	Which of the following represents India in ISO?
	a) PFRDA b) FSSAI c) BIS d) BCCI
21.	BEP analysis is a analysis
	a) Short Term b) Long Term c) Quick d) Medium Term
22.	Overhead is a total of
	a) Direct Costs b) Fixed Costs c) Variable Costs d) Indirect Costs
23.	Which is not a goal of quality management?
	a) Productivity and efficiency
	b) Providing easily accessible documentation for procedures and work instructions
	c) Management responsibility
	d) Improving the quality of the end product or service



5.

- - a) Mc Gregor b) Peter Drucker c) Elton Mayo d) Maslow
- 26. Advertising expenses comes under Selling Overheads True / False
- 27. Small Scale Industries provide \_\_\_\_\_ for increasing employment a) Threat b) Strength c) Opportunity d) Wealth
- 28. What is meant by Kaizen?
  - a) Card signal b) To avoid inadvertent errors c) Change for better quality d) None of the above
- 29. What is Lead Time?
  - a) Time gap between initiation and completion of a production process
  - b) Production time
  - c) Delivery time
  - d) Realization time
- 30. Break-even Analysis consists of . Fixed and Variable Costs True / False

### PART - B

Answer all questions (Max. 40 words)

 $4 \times 2 = 8$ 

- What is Manpower planning? & its requirements?
- 2. Describe the importance of Scientific management
- 3. Describe various types of tax systems in India
- 4. What is Kaizen quality circle and briefly explain?

### PART - C

Answer any four questions (Max. 100 words)

 $4 \times 3 = 12$ 

- Write an outline of a Project Report for establishing an industry to manufacture PET bottle
- Discuss in detail about Total Quality Management
- 3. Define Leadership & mention the qualities of successful leader
- 4. Explain the term in detail with respect to processing departmenta) POKA-YOKEb) Management as a process and activity
  - Explain "Quality of Design" and "Quality of Conformance"

### PART - D

Answer any two questions (Max. 300 words)

 $2 \times 5 = 10$ 

- Write the steps for implementation of ISO 9000 quality system in processing department & ISO 14001:2004 with reference of manufacturing industry
- 2. Explain the Quality Management, its components and Principles with diagram.
- 3. Explain Break Even Analysis using suitable example and graph

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