



## CHEMISTRY

### BOOKS - CHETANA PUBLICATION

#### Introduction of Polymer Chemistry

##### Example

1. Classify the following materials as bio      degradable and non-bio-degradable :

Thermocol, glass, wood, cotton clothes, paper bags, polythene bags, nylon ropes, fruit peels.



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2. State and explain the principle of conservation of angular momentum. Use a suitable illustration. Do we use it in our daily life ? When ?



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3. Which material is used in manufacture of toys, combs ?



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4. Write examples of thermosetting plastic articles.



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5. List various properties of plastic.



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6. Define the following terms :

Polymers



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7. Define the terms

Monomers



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## 8. Define the terms

Polymerization



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## 9. Name some organic bio-polymers.



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## 10. Draw a flow chart to show classification of polymers.



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**11.** What are the different ways in which the polymers can be classified?



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**12.** Explain the classification of polymers on the basis of structure.



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**13.** Explain the classification of polymers on the basis of structure.



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**14.** Explain classification of polymer on the basis of mode of polymerization.



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**15.** Differentiate between Natural polymers and Synthetic polymers.



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**16.** Explain the process of Addition polymerization OR \*  
Explain in detail free-radical mechanism involved during preparation of addition polymer.



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17. Explain condensation polymerization.



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18. Explain Ring-opening polymerization.



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19. Explain the classification of polymers on the basis of inter-molecular forces.



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**20. Write short note on:**

Elastomers:



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**21. Write short note on:**

Fibres:



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**22. Write short note on:**

Thermoplastic polymers:



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**23.** Write short note on:

Thermosetting polymers:



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**24.** Explain the classification of polymers on the basis of types of monomers.



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**25.** Explain the classification of polymers on the basis of biodegradability.



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**26.** Write uses of Rubber



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**27.** Name the monomer of natural rubber.



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**28.** What is natural rubber? Draw its structure.



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**29.** What type of polymer is rubber?



**Watch Video Solution**

**30.** Write the reaction involved in the formation of natural rubber



**Watch Video Solution**

**31.** Write properties of natural rubber.



**Watch Video Solution**

**32.** What is Vulcanization of rubber?



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**33.** Explain the process of vulcanization of natural rubber.



**Watch Video Solution**

**34.** Explain, how vulcanization of natural rubber improves its elasticity?



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**35.** Write structure of polythene. What are the types of polythene?



**Watch Video Solution**

**36.** How is low density polyethylene (LDP) manufactured?

Give its properties.



**Watch Video Solution**

**37.** Write uses of LDP?



**Watch Video Solution**

**38.** How is ethylene prepared?



**Watch Video Solution**

**39.** Explain the mechanism of preparation of L.D.P.?



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**40.** How is high density polyethylene (HDP) manufactured?

Give its properties:



[Watch Video Solution](#)

**41.** Write used of HDP?



[Watch Video Solution](#)

**42.** What is Teflon? Which is its monomer?



[Watch Video Solution](#)

**43.** How is Teflon prepared? Write its properties.



**Watch Video Solution**

**44.** Write uses of Teflon?



**Watch Video Solution**

**45.** How is poly-acrylonitrile manufactured? Write the uses of it.



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**46.** What are Nylons?



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**47.** Write synthesis of Nylon- 6,6?



[Watch Video Solution](#)

**48.** Write properties of Nylon-6,6 Write uses of Nylon-6,6.



[Watch Video Solution](#)

**49.** Write synthesis of Nylon - 6,6 Write its properties and its uses.



[Watch Video Solution](#)



50. What are polyesters?



[Watch Video Solution](#)

51. Write synthesis of Nylon- 6,6?



[Watch Video Solution](#)

52. Write properties and uses of terylene.



[Watch Video Solution](#)

53. What are polycarbonate polymer?



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**54.** Write a note on: Bakelite.



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**55.** Write synthesis of Melamine-formaldehyde polymer?

What are its uses?



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**56.** Write a note on: Buna-S rubber?



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**57.** Write note on: Neoprene.



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**58.** Write a note on: Viscose rayon?



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**59.** Write structural formulae of styrene and poly butadiene?



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**60.** Classify the following polymers as addition or condensation.

PVC



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**61.** Classify the following polymers as addition or condensation.

Polyamides



[Watch Video Solution](#)

**62.** Classify the following polymers as addition or condensation.

Polystyrene



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**63.** Classify the following polymers as addition or condensation.

Polycarbonates

 [Watch Video Solution](#)

**64.** Classify the following polymers as addition or condensation.

Navolac

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**65.** Name the polymer type in which following linkage is present  $\begin{array}{c} -C- \\ || \\ O \end{array} -O-$



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**66.** Classify the following polymers as natural and synthetic polymers.

Cellulose



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**67.** Classify the following polymers as natural and synthetic polymers.

Poly-styrene



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**68.** Classify the following polymers as natural and synthetic polymers.

Terylene



**Watch Video Solution**

**69.** Classify the following polymers as natural and synthetic polymers.

Starch



**Watch Video Solution**

**70.** Classify the following polymers as natural and synthetic polymers.

protein



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**71.** Classify the following polymers as natural and synthetic polymers.

Silicones



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**72.** Classify the following polymers as natural and synthetic polymers.

Orlon (poly-acrylo-nitrile)



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**73.** Classify the following polymers as natural and synthetic polymers.

Phenol



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**74.** Name and draw structure of the repeating unit in natural rubber.



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**75.** Write name and formula of raw material from which bakelite is made.



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**76.** Which are the vulcanizing agents used in the following synthetic rubber:

Neoprene



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**77.** Which are the vulcanizing agents used in the following synthetic rubber:

BuNa-N



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**78.** Write examples of Addition polymers and condensation polymers. [Chain growth polymers][Step-growth polymers]



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**79.** What type of intermolecular force leads to high density polymer?



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**80.** Give one example each of copolymer and homopolymer.



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**81.** Identify Thermoplastic and Thermosetting Plastics from the following-

PET



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**82.** Identify Thermoplastic and Thermosetting Plastics from the following-

Urea formaldehyde resin



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**83.** Identify Thermoplastic and Thermosetting Plastics from the following-

## Polythene



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**84.** Identify Thermoplastic and Thermosetting Plastics from the following-

Phenol formaldehyde



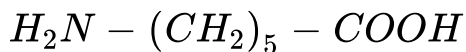
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**85.** Draw the structures of polymers formed from the following monomers



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**86.** Draw the structures of polymers formed from the following monomers



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**87.** What are synthetic resins? Name some natural and synthetic resins.



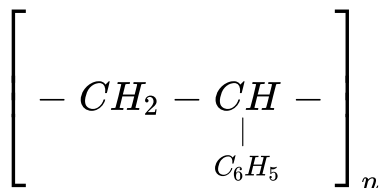
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**88.** Distinguish between thermosetting and thermoplastic resins. Write examples of both the classes.



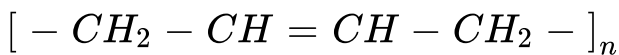
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**89.** Identify condensation polymers and addition polymers from the following,



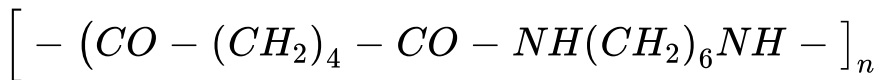
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**90.** Identify condensation polymers and addition polymers from the following,



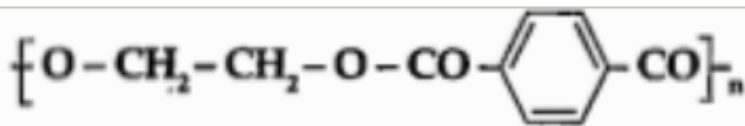
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91. Identify condensation polymers and addition polymers from the following,



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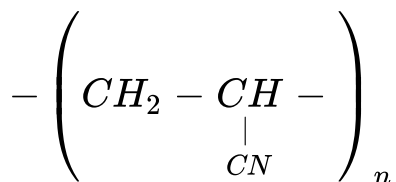
92. Identify condensation polymers and addition polymers from the following,



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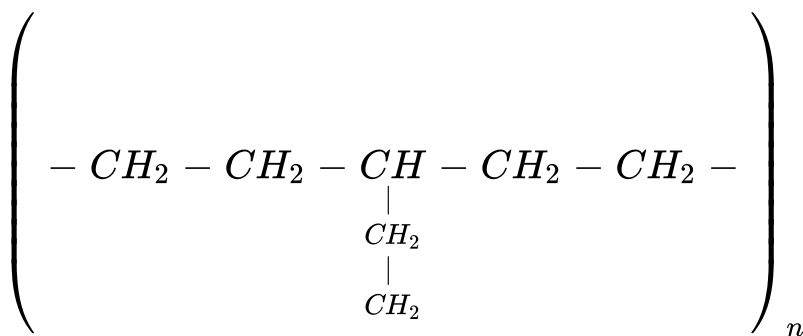


**93.** Classify the following polymers as straight chain, branched chain and cross linked polymers.



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**94.** Classify the following polymers as straight chain, branched chain and cross linked polymers.



 **Watch Video Solution**

**95.** Is synthetic rubber better than natural rubber ? If so, in what respect?



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**96.** Complete the following statements.

Caprolactam is used to prepare .....



**Watch Video Solution**

**97.** Complete the following statements.

Navolac is a copolymer of .....and .....



**Watch Video Solution**

**98.** Complete the following statements.

Terylene is.....polymer of terephthalic acid and ethylene glycol.



**Watch Video Solution**

**99.** Complete the following statements.

Benzol peroxide used in addition polymerization acts as  
.....



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**100.** Complete the following statements.

Polyethene consists of polymerized .....



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**101.** Write a note: Molecular mass of polymers



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**102.** Name some materials which undergo degradation after use.



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**103.** List the materials which do not decay even after a long time.



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**104.** How is the environment affected by non decaying substances ?



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**105.** Which bonds are broken during digestion of proteins and- carbohydrates?



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**106.** What are the structural formulae of glycine and e-amino caproic acid?



**Watch Video Solution**

**107.** What are biodegradable polymers? Write examples.



**Watch Video Solution**

**108.** What are non biodegradable polymers? Write examples.



**Watch Video Solution**

**109.** Give synthesis of PHBV.



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**110.** Give synthesis of Nylon2-nylon 6.



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## Exercise

1. Nylon fibres are.....

- A. Semisynthetic fibres
- B. Polyamide fibres
- C. Polyester fibres
- D. Cellulose fibres

**Answer:**



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2. Which of the following is naturally occurring polymer?

A. Teflon

B. Polyethylene

C. PVC

D. Protein

**Answer:**



**Watch Video Solution**

3. Silk is a kind of.....fibre.

A. Semisynthetic

B. Synthetic



C. Animal

D. Vegetable

**Answer:**



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**4. Dacron is another name of .....**

A. Nylon 6

B. Orion

C. Novolac

D. Terylene

**Answer:**



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5. Which of the following is made up of polyamides?

A. Dacron

B. Rayon

C. Nylon

D. Jute

**Answer:**



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6. The number of carbon atoms present in the ring of  $\epsilon$ -caprolactam is

A. Five

B. Two

C. Seven

D. Six

**Answer:**



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7. Terylene is.....

A. Polyamide fibre

B. Polyester fibre

C. Vegetable fibre

D. Protein fibre

**Answer:**



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**8. PET is formed by .....**

A. Addition

B. Condensation

C. Alkylation

D. Hydration

**Answer:**



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9. Chemically pure cotton is.....

- A. Acetate rayon
- B. Viscose rayon
- C. Cellulose nitrate
- D. Cellulose

**Answer:**



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10. Teflon is chemically inert, due to presence of.....

- A. C-H bond
- B. C - F bond
- C. H- bond
- D. C=C

**Answer:**



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11. Which one of the following is a condensation Polymer ?

- A. Nylon
- B. Polythene

C. PVC

D. Teflon

**Answer:**



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**12. Which one of the following is an addition polymer?**

A. Bakelite

B. Nylon-6,6

C. Polystyrene

D. Terylene

**Answer:**



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**13.** Which of the following is a copolymer?

A. Orlon

B. Teflon

C. PVC

D. PHBV

**Answer:**



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**14.** The monomer used to prepare superglue is



- A. Vinyl chloride
- B. methyl  $\alpha$ -cyanoacrylate
- C. p-phenylene diamine
- D. diethyl carbonate

**Answer:**



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**15.** A polymer of butadiene and acrylonitrile is called.

- A. Buna-S
- B. Buna-N
- C. Buna-B

D. Buna-A

**Answer:**



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**16.** Natural rubber is a polymer of

A. styrene

B. butadiene

C. vinyl chloride

D. isoprene

**Answer:**



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17. In which of the following pairs both are copolymers?

- A. PHBV, Bakelite
- B. Polythene, terylene
- C. Polyacrylonitrile, nylon-6,6
- D. Polystyrene, melamine

**Answer:**



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18. The polymer used in paints is

- A. Nylon

B. Glyptal

C. Neoprene

D. Terylene

**Answer:**



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**19.** Which of the following contains biodegradable polymers only?

A. Cellulose,dextron,PHBV

B. Starch,PHBV,PVC

C. Bakelite, nylon-2-nylon-6,nylon6,6

D. Cellulose, starch, terylene

**Answer:**



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**20. Thermosetting polymer is**

A. Nylon-6

B. Nylon-6,6

C. Bakelite

D. SBR

**Answer:**



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21. Nylon thread contains the polymer

- A. polyamide
- B. polyvinyl
- C. polyester
- D. polyethylene

**Answer:**



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22. Polythene, PVC, teflon and neoprene are all

- A. monomers
- B. homopolymers

C. copolymers

D. condensation polymers

**Answer:**



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**23.** Which one of the following is NOT a biodegradable polymer?

A. Starch

B. Cellulose

C. Dextran

D. Decron

**Answer:**



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**24.** The polymer used in making blankets (artificial wool) is

- A. polyester
- B. polyacrylonitrile
- C. polythene
- D. polystyrene

**Answer:**



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25. Trans-poly-isoprene is called

- A. Glyptal
- B. Gutta-Percha
- C. Melamine
- D. Bun-S

**Answer:**



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26. Polythene is

- A. addition polymer
- B. condensation polymer

C. thermoplastic polymer

D. copolymer

**Answer:**



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**27. Elastomers have**

A. Weak intermolecular force

B. Strong intermolecular force

C. Strongest intermolecular force

D. Weakest intermolecular force

**Answer:**



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**28.** The polymer has

- A. low molecular weight
- B. high molecular weight
- C. high density
- D. high volume

**Answer:**



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**29.** Terylene is.....

A. Polyamide fibre

B. Polyester fibre

C. Vegetable fibre

D. Protein fibre

**Answer:**



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**30.** The monomer of natural rubber is

A. Ethene

B. Styrene

C. Chloroethene

D. isoprene

**Answer:**



**Watch Video Solution**

**31. Silk is.....**

- A. an artificial fibre
- B. a vegetable fibre
- C. a regenerated fibre
- D. an animal fibre

**Answer:**



**Watch Video Solution**

**32.** Which of the following is a natural fibre?

A. Rayon

B. Jute

C. Terylene

D. Nylon

**Answer:**



**Watch Video Solution**

**33.** Which of the following is a polyester fibre?

A. Nylon-6

B. Nylon-6,6

C. Terylene

D. Rayon

**Answer:**



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**34.** Cellulose is the main constituent of.....

A. Nylon-6

B. Cotton

C. Terylene

D. wool

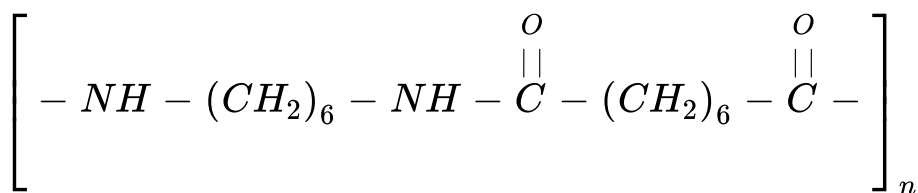
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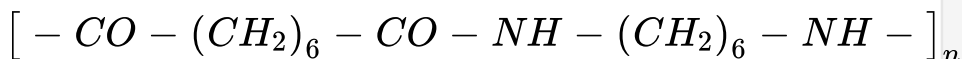
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**35.** Give the method of preparation of Nylon-6

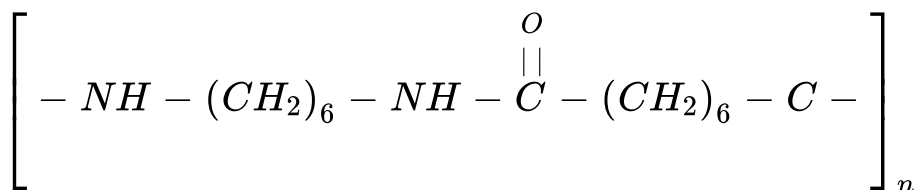
A.



B.

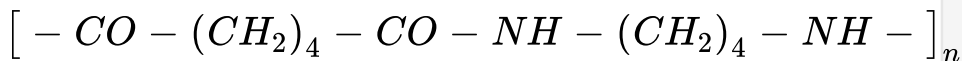


C.





D.

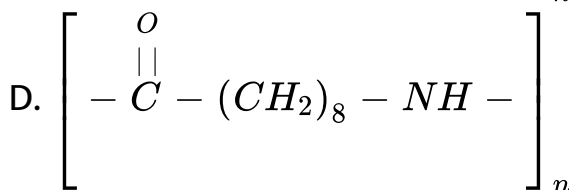
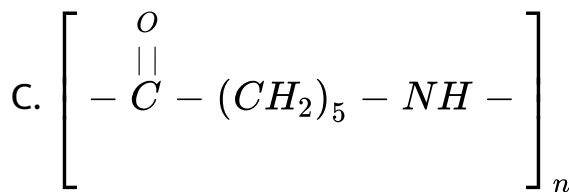
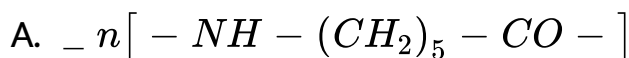


**Answer:**



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**36.** Nylon - 6, 6 polymer is correctly represented as.....

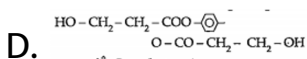
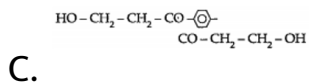
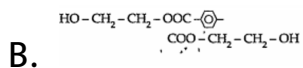


**Answer:**



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**37. Dihydroxy diethyl terephthalate is.....**



**Answer:**



**Watch Video Solution**

**38.** Reaction of DMT & ethylene glycol produces

A. Nylon-6

B. Dacron

C. Polyester

D. PVC

**Answer:**



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**39.** Complete the following statements.

Terylene is.....polymer of terephthalic acid and ethylene glycol.

A. Glycerol

B. ethylene glycol

C. Propylene glycol

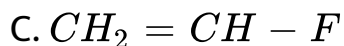
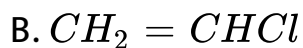
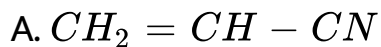
D. ethyl alcohol

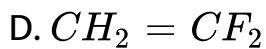
**Answer:**



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**40.** The monomer used to prepare orlon is.....





**Answer:**



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**41.** The polymer used in human hair wigs is.....

A. Dynel

B. Thiokl

C. kevlar

D. Nomex

**Answer:**



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42. Superglue is a homopolymer of.....

- A. Terephthalic acid chloride
- B. Ethylene chloride
- C. Acrylonitrile
- D. Methyl  $\alpha$  - cyanoacrylate

**Answer:**



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43. The Ziegler - Natta catalyst is used in the preparation of

- A. LDPE

B. PHBV

C. PAN

D. HDPE

**Answer:**



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**44.** A high molecular weight molecule built from a large numbers of simple molecules is called -a.....

A. Monomer

B. Isomer

C. Polymer

D. Tautomer

**Answer:**



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**45.** A high molecular weight molecule which does not contain repeating structural units is called a.....

- A. Polymer
- B. Macromolecule
- C. Both a and b
- D. None of the above

**Answer:**



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**46.** The simple molecules from which a polymer is made are called.....

- A. Monomers
- B. Metamers
- C. Rotamers
- D. Enantiomers

**Answer:**



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**47.** Which of the following is not a biopolymer?

- A. Proteins

B. Nucleic acids

C. Cellulose

D. Neoprene

**Answer:**



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**48.** Amongst the following, a homopolymer is.....

A. PMMA

B. Bakelite

C. Glyptal

D. Dacron

**Answer:**



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**49.** Which of the following is copolymer?

A. Bune-S

B. PAN

C. Polythene

D. PTFE

**Answer:**



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50. A copolymer of acrylonitrile and 1,3-butadiene is called.....

A. Buna-N

B. Polystyrene

C. Neoprene

D. Bun-S

**Answer:**



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51. Mark the correct statement about thiokol rubber.

A. It is a synthetic polysulphide rubber.

- B. It is obtained by condensation of carbon disulphide with sodium tetrasulphide
- C. It is resistant to oils and abrasion.
- D. All are correct.

**Answer:**



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**52. Sucrose is formed by condensation of**

- A. Low density polythene
- B. High density polythene
- C. Nylon-6

D. Dacron

**Answer:**



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**53.** Gutta percha is .....

- A. trans-polyisoprene
- B. A synthetic polymer
- C. A very hard material
- D. All statements are correct

**Answer:**



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54. Thermoplastics are.....

- A. Linear polymers
- B. Soften or melt heating
- C. Molten polymer can be moulded in desired shape
- D. All are correct

**Answer:**



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55. The tensile strength, elasticity and resistance to abrasion can be increased by a process called

- A. Diazotization
- B. Vulcanization
- C. Isomerization
- D. Polymerization

**Answer:**



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**56.** The process of vulcanization was introduced by

- A. Charles Goodyear
- B. Kolbe
- C. Wohler



D. Zeigler

**Answer:**



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**57.** The linear chains in nylon are held together by

- A. H-bonds
- B. Covalent bonds
- C. Ionic bonds
- D. Van Der Waals forces

**Answer:**



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58. Chloroprene is obtained by addition of HCl to.....

- A. Acetylene
- B. Vinlacetylene
- C. Divinylacetylene
- D. Phenylacetylene

**Answer:**



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59. A polymer of prop-2-enenitrile is called

- A. Saran

B. Orlon

C. Dacron

D. Taflon

**Answer:**



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**60.** Starch is the condensation polymer of.....

A.  $\alpha$ -glucose

B.  $\beta$ -glucose

C.  $\alpha$ -Fructose

D.  $\beta$ -Fructose

**Answer:**



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**61.** Which one of the following is true about polymers ?

- A. Molecular weight is specific.
- B. Formed by covalent bonds.
- C. All chains in a sample have fixed length.
- D. Bakelite is an addition polymer.

**Answer:**



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62. Which of the following is not a chain reaction polymer ?

A. polystyrene

B. bakelite

C. Dacron

D. nylon-6

**Answer:**



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63. A polymide is formed by condensation of  $n$  moles of diamine and  $n$  moles of dicarboxylic acid. Number of moles of water formed on completion of reactions is

A.  $n$

B.  $n-1$

C.  $2n-1$

D.  $2n$

**Answer:**



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**64.** The polymer -A-A-A-A-B-B-B-B-A-A-A-A- is formed by the addition of two monomers A and B. The polymer is

A. homopolymer

B. condensation polymer

C. graft copolymer

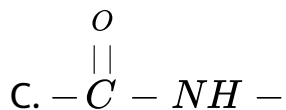
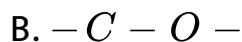
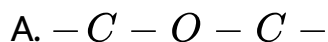
D. block copolymer

**Answer:**



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**65.** The linkage present in proteins and peptides is.....



**Answer:**



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**66.** Which of the following is polyamide?

A. Teflon

B. Nylon-6,6

C. Terylene

D. Bakelite

**Answer:**



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**67.** Bakelite is a polymer of.....

A. Formaldehyde and phenol

B. Benzaldehyde and phenol



C. Formaldehyde and benzyl alcohol

D. Acetaldehyde and phenol

**Answer:**



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**68.** The Ziegler - Natta catalyst is used in the preparation of

A. LDPE

B. PHBV

C. PAN

D. HDPE

**Answer:**



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**69.** Natural rubber is a polymer of

A. styrene

B. butadiene

C. vinyl chloride

D. isoprene

**Answer:**



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**70.** Nylon thread contains the polymer

- A. polyamide
- B. polyvinyl
- C. polyester
- D. polyethylene

**Answer:**



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**71.** Teflon is chemically inert, due to presence of.....

- A. C-H bond
- B. C-F bond
- C. H- bond

D. C = C bond

**Answer:**



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72. Caprolactum is used to prepared

A. Terylene

B. Nylon-6,6

C. Novolac

D. Nylon-6

**Answer:**



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**73.** What is the function of benzyl peroxide in the addition polymerization?



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**74.** Name any one biodegradable synthetic polymer.



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**75.** Name the vulcanizing agent in the Neoprene.



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**76.** Write the preparation of nylon-2-nylon- 6 polymers.



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**77.** Give method of preparation of Nylon- 6, 6.



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**78.** Give one example each of- thermosetting and thermoplastic polymers.



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**79.** Write two properties of natural rubber.



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**80.** Write a note on: Elastomers.



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**81.** Draw structures of:

Polyacrylonitrile



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**82.** Draw structures of:

Teflon.



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**83.** Write a note on: Viscose rayon?



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**84.** How are polymers classified on the basis of their source?



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**85.** Explain classification of polymer on the basis of mode of polymerization.



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**86.** Name the monomers used in the synthesis of following polymers -

Nylon 6,6



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**87.** Name the monomers used in the synthesis of following polymers -

Thermocol



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**88.** Give synthesis of PHBV.



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89. Match the Columns:

Column 'A'	Column 'B'
(1) Polyester	(a) $\text{CH}_2 = \text{CH}_2$
(2) PVC	(b) $\text{C}_6\text{H}_5\text{OH} + \text{HCHO}$
(3) Polythene	(c) $\text{CH}_2 = \text{CH} - \text{Cl}$
(4) Bakelite	(d) $\text{HOOC} - \text{R} - \text{COOH}$ and $\text{HO} - \text{R}' - \text{OH}$



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90. Give the method of preparation of Nylon-6



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