



CHEMISTRY

BOOKS - MODERN PUBLICATION CHEMISTRY

(KANNADA ENGLISH)

POLYMERS

Multiple Choice Questions Level I

1. Which of the following is natural polymer. Buna-S Protein, PVC ?

A. Starch

B. Teflon

C. Neoprene

D. Nylon

Answer: A

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2. Which of the following is an example of addition polymer ?

- A. Teflon
- B. Nylon - 66
- C. Bakelite
- D. Nylon - 6.

Answer: A

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3. Give an example of thermoplastic polymer.

- A. terylene
- B. nylon
- C. polyethylene
- D. all

Answer: D

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4. What is vulcanisation of rubber?

- A. soluble in water
- B. hard
- C. soft
- D. less elastic

Answer: B

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5. Which of the following is not an example of addition polymer ?

- A. Polystyrene
- B. Polyethylene
- C. Polypropylene
- D. Terylene

Answer: D

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6. Which of the following is not a condensation polymer ?

A. Polystyrene

B. Glyptal

C. Terelene

D. Nylon - 66

Answer: A



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7. The synthetic polymer which resembles natural rubber is :

A. Neoprene

B. Buna - S

C. Glyptal

D. Nylon

Answer: A

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8. What is natural rubber ? What is vulcanisation of rubber ? How is it carried ?

A. Wohler

B. Volta

C. Charles Good Year

D. Zeigler

Answer: C

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9. Which one of the following is a synthetic polymer ?

- A. Starch
- B. Protein
- C. Neoprene
- D. Silk

Answer: C

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10. Write the structure of isoprene and polyisoprene.

- A. 2 - Chloro - 1,3 - butadiene
- B. 2 - Methyl - 1,3 - butadiene
- C. 2 - Methyl - 3 - chloro - 1- butane

D. 2 - Methoxypropene.

Answer: B

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11. What is natural rubber ? What is vulcanisation of rubber ? How is it carried ?

A. Sulphur

B. Carbon

C. Ozone

D. Phosphorus

Answer: A

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12. Give an example for thermosetting polymer.

A. Polythene

B. PVC

C. Neoprene

D. Bakelite

Answer: D

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13. Which of the following is an example of homopolymer ?

A. Bakelite

B. Terylene

C. Nylon

D. Polythene

Answer: D

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14. An example of a natural biopolymer is :

A. teflon

B. rubber

C. nylon - 66

D. DNA

Answer: D

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15. Give an example for a co-polymer.

- A. Buna - S
- B. Polystyrene
- C. Polythene
- D. PAN

Answer: A



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16. Which of the following polymer has strongest intermolecular forces of attraction ?

- A. elastomers
- B. fibres

C. thermoplastics

D. thermosetting polymers

Answer: D

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17. Free radical addition polymerisation is initiated by:

A. Benzoquinone

B. Carbon tetrachloride

C. t- butyl peroxide

D. butadiene

Answer: C

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18. For natural polymers , polydispersity index (PDI)is :

A. 0

B. 1

C. very very large

D. 100

Answer: B



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19. Which of the following is a chain growth polymer ?

A. Nucleic acid

B. Polystyrene

C. Protein

D. Starch

Answer: B

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20. $[NH(CH_2)_4NHCO(CH_2)_4CO]_4$ is a :

A. addition polymer

B. thermosetting polymer

C. homopolymer

D. copolymer

Answer: D

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21. Which of the following has amide linkage ?

A. Nylon - 66

B. Terylene

C. Teflon

D. Bakelite

Answer: A



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22. The monomers of Buna -S rubber are

A. styrene

B. terephthalic acid

C. vinyl chloride

D. adipic acid

Answer: A

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23. Which of the following has an ester linkage ?

A. nylon

B. bakelite

C. terylene

D. PVC

Answer: C

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24. Glyptal is a polymer of :

- A. Ethylene glycol and phthalic acid
- B. Ethylene glycol and adipic acid
- C. Ethylene glycol and terephthalic acid
- D. Caprolactum and formaldehyde

Answer: A



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25. What is Buna-S ?

- A. styrene
- B. sulphur
- C. sodium

D. strain

Answer: A

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26. Bakelite is a product of reaction between

- A. Formaldehyde resin
- B. Phenol formaldehyde resin
- C. Artificial rubber
- D. None of these

Answer: B

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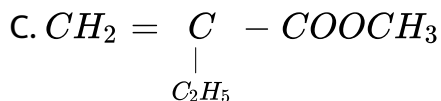
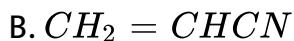
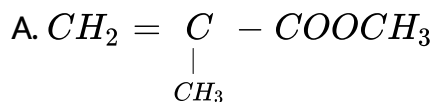
27. Name the monomers of Nylon-6,6.

- A. Benzoic acid and ethylamine
- B. Phthalic acid and hexamethylene diamine
- C. Adipic acid and hexamethylene diamine
- D. Phenol and adipic acid

Answer: C

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28. The monomer of PMMA is :



D. $CH_2 = CHCl$.

Answer: A

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29. How is terylene prepared from glycol ?

A. phthalic acid

B. adipic acid

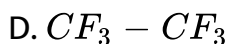
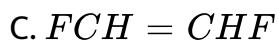
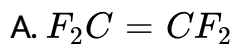
C. terephthalic acid

D. formaldehyde

Answer: C

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30. Teflon is a polymer of the monomer :



Answer: A



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31. Name the monomer present in following polymer.

i) Nylon - 6

ii) Natural rubber

iii) Neoprene.

A. Styrene

B. Chloroprene

C. Propylene

D. Styrene and adipic acid

Answer: B



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32. The polymer containing an amide group is :

A. polythene

B. polystyrene

C. terylene

D. nylon

Answer: D



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33. Which of the following polymers is generally used in making carry bags ?

A. Polyester

B. bakelite

C. Polythene

D. Alkyl resins

Answer: C

34. Which of the following polymers is used for coating as a thin layer on the inner side of non - sticking pans ?

A. Bakelite

B. PVC

C. Styrene

D. Teflon

Answer: D



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35. Give monomers used and partial structure of

Terylene (Dacron)

A. benzoic acid

B. phthalic acid

C. terephthalic acid

D. polyethylene

Answer: C

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36. Bakelite is a product of reaction between

- A. phenol and formaldehyde
- B. ethylene glycol and dimethyl terephthalate
- C. urea and formaldehyde
- D. tetramethylene glycol and hexamethylene diamine.

Answer: A

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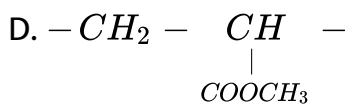
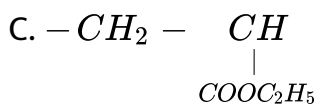
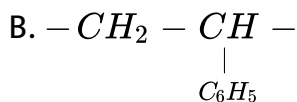
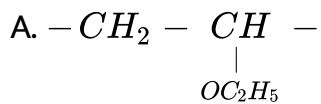
37. Teflon is a polymer of the monomer :

- A. Difluoroethane
- B. Monofluoroethene
- C. Tetrafluoroethene
- D. Trifluoroethane.

Answer: C

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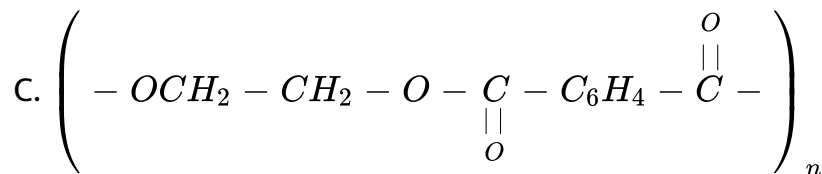
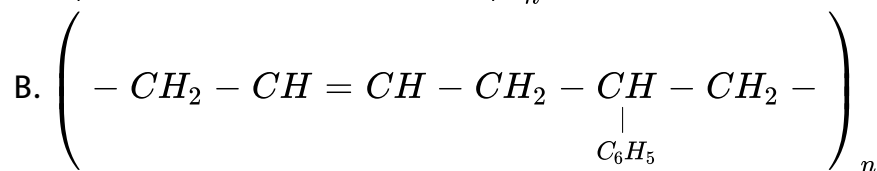
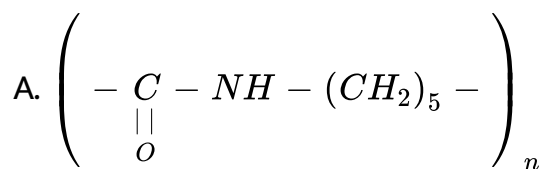
38. The repeating unit of polyethyl acrylate is :



Answer: C

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39. Which of the following structure represents terylene ?



Answer: C

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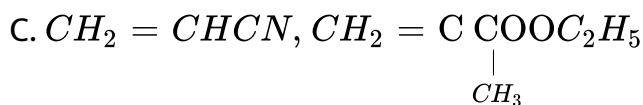
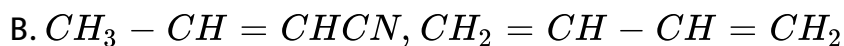
40. (a) Explain the preparation of Buna-N with equation.

Name the monomer present in the following polymer

(i) Poly vinyl chloride

(ii) Natural rubber.

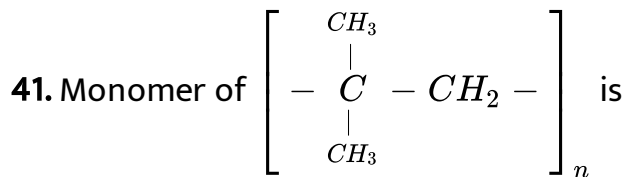
(c) Give an example of bio-degradable polymer.



Answer: A



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A. 2 - Methyl propene

B. Styrene

C. Propylene

D. Ethene

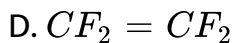
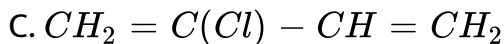
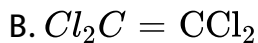
Answer: A

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42. Name the monomers present in the following polymers.

Neoprene

A. $\text{CH}_3 = \text{CHCl}$



Answer: C



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43. (a) What is meant by polymerisation? Name the monomer used in the preparation of Polyvinyl Chloride (PVC).

(b) Write partial structure of the following polymers.

(i) Poly propene

(ii) Teflon

(iii) Neoprene

A. Vinyl chloride and ethene

B. Ethane

C. Isoprene

D. 1,3 - butadiene and acrylonitrile

Answer: A

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44. Name the monomers present in the following polymers.

PVC

A. vinyl chloride

B. ethylene

C. chloroprene

D. acrylonitrile

Answer: A

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45. The monomers of Buna -S rubber are

- A. chloroprene
- B. Styrene
- C. acrylonitrile
- D. adipic acid

Answer: B



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46. Caprolactum polymerises to give

- A. Nylon - 6
- B. Buna - S

C. Glyptal

D. Teflon

Answer: A

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47. Teflon is a polymer of the monomer :

A. glyptal

B. tenflon

C. orlon

D. buna - S

Answer: B

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48. Which of the following is a fully fluorinated polymer ?

A. Neoprene

B. Teflon

C. Thiokol

D. PVC

Answer: B



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49. Ethylene glycol and phthalic acid are monomers of

A. Nylon - 6

B. Glyptal

C. Buna - S

D. Terylene

Answer: B

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50. Poly - β - hydroxybutyrate - co - β hydroxy valerate is an example of

- A. thermoplastic
- B. biodegradable polymer
- C. naturally occurring polymer
- D. semi - synthetic polymer

Answer: B

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Multiple Choice Questions Level Ii

1. Give self-explanatory equation for the preparation of Polyacrylonitrile (PAN).

A. vinyl chloride

B. vinyl alcohol

C. vinyl cyanide

D. adipic acid

Answer: C



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2. Write the structure of isoprene (2-methyl -1,3-butadiene).

A. starch

B. synthetic rubber

C. natural rubber

D. PVC

Answer: C



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3. Which of the following is a polymer containing nitrogen ?

A. Terylene

B. Teflon

C. PVC

D. Nylon

Answer: D



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4. Caprolactum is a monomer of Nylon - 6 . It can be obtained from :

- A. Cyclohexane
- B. Benzene
- C. Formaldehyde
- D. Adipic acid

Answer: A

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5. Chloroprene is the repeating unit in :

- A. Polystyrene

B. Buna -S

C. Neoprene

D. Glyptal

Answer: C



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6. Plexiglass is a commercial name of :

A. Glyptal

B. Polymethyl methacrylate

C. Polyacrylonitrile

D. Polyethylacrylate

Answer: B



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7. Which of the following fibres is made of polyamides ?

A. Dacron

B. Orlon

C. Nylon

D. Rayon

Answer: C

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8. Bakelite is a product of reaction between

A. acetal

B. acetaldehyde

C. formaldehyde

D. chlorobenzene

Answer: C

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9. The product of addition polymerisation reaction is

A. PVC

B. Nylon

C. Terylene

D. Polyamide

Answer: A

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10. Of which of the following , glycol is an important constituent ?

A. Dacron

B. Acrilon

C. Teflon

D. Viscose rayon

Answer: A

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11. What is Zeigler-Natta catalyst?

A. Ni

B. V_2O_5

C. $AlCl_3$

D. $TiCl_4$ and $(CH_3CH_2)_3Al$

Answer: D

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12. Orlon is a polymer of :

A. Vinyl chloride

B. Neoprene

C. Acrylonitrile

D. Tetrafluoroethene

Answer: C

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13. Synthetic human hair wigs are made from a copolymer of vinyl chloride and acrylonitrile and is called :

- A. PVC
- B. Polyacrylonitrile
- C. PTFE
- D. Dynel

Answer: D

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14. The turbidity of a polymer solution measures :

- A. a light absorbed by solution
- B. light transmitted by the solution

C. light scattered by the solution

D. none of the above

Answer: C

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15. Which of the following is a polycarbonate ?

A. PAN

B. Acrilan

C. Lexan

D. buna - S

Answer: C

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16. Perlong is another name of :

- A. Nylon - 6
- B. Nylon - 66
- C. Nylon 6,10
- D. Terylene

Answer: A

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17. Synthetic rubber is :

- A. Polyamide
- B. Polysaccharide
- C. cellulose

D. Polyhalodiene

Answer: D

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18. Which of the following represents number average molecular mass ?

$$\text{A. } M = \frac{\sum N_i M_i^2}{\sum N_i}$$

$$\text{B. } M = \frac{\sum N_i M_i}{\sum N_i}$$

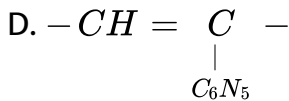
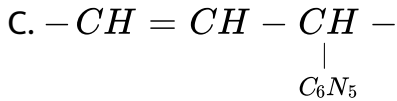
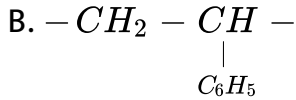
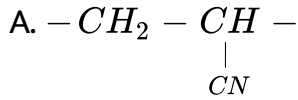
$$\text{C. } M = \frac{\sum N_i M_i^2}{\sum N_i M_i}$$

$$\text{D. } M = \frac{\sum N_i M_i}{\sum N_i}$$

Answer: B

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19. The polymer polystyrene has the repeating unit :



Answer: B

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20. Nitrile rubber is a copolymer of :

A. isobutylene and isoprene

B. isobutylene and acrylonitrile

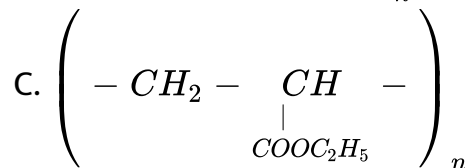
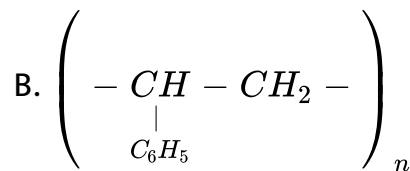
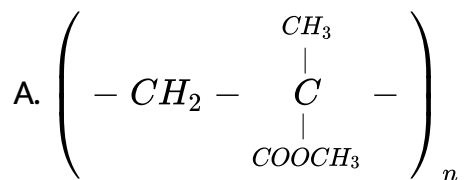
C. butadiene and acrylonitrile

D. styrene and butadiene

Answer: C

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21. Plexi glass is



D. None of these

Answer: A



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22. A polymer sample is made of 30% molecules of molecular mass 20,000, 40% of molecular mass 30,000 and rest of mass 60,000 .

The \overline{M}_n is :

A. 36, 0000

B. 36, 000

C. 46, 000

D. 50, 000

Answer: B



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23. Which of the following is true about the polymer $-(CH_2 - CH(C_6H_5))_n-$?

- A. It is a homopolymer and condensation polymer
- B. It is a copolymer and condensation polymer
- C. It is a homopolymer and addition polymer
- D. It is a copolymer and condensation polymer .

Answer: C

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24. Acrilon is hard , horny and a high melting material . Which of the following represents its structure ?

A. 

B. 

C. 

D. 

Answer: A



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25. Which one of the following is polymers is prepared by condensation polymerization ?

A. Teflon

B. Rubber

C. Styrene

D. Nylon - 66

Answer: D



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26. Given the polymers

A = Nylon 6,6, B = Buna - S , C = polythene .

Arrange these in decreasing order of their intermolecular forces.

A. $A > B > C$

B. $B > C > A$

C. $B < C < A$

D. $C < A < B$

Answer: A



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27. The polymer used in orthopedic devices and in controlled drug release is S :

- A. Orlon
- B. PTFE
- C. SBR
- D. PHBV

Answer: D



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28. Which of the following polymers of glucose is stored by animals?S

- A. Cellulose

B. Amylose

C. Amylopectin

D. Glycogen

Answer: D



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29. The commercial name of polyacrylonitrile is

A. Dacron

B. Orlon (acrilan)

C. PVC

D. Bakelite

Answer: B



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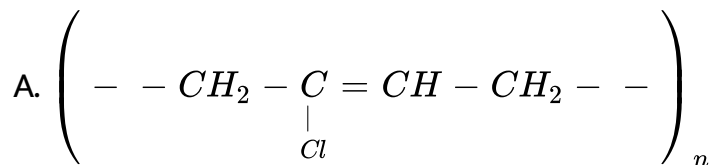
30. Which of the following is not a semisynthetic polymer ?

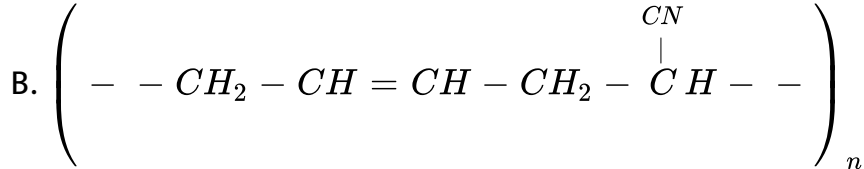
- A. cis - polyisoprene
- B. Cellulose nitrate
- C. Cellulose acetate
- D. Vulcanised rubber

Answer: A

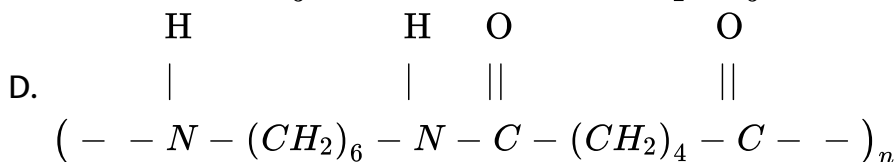
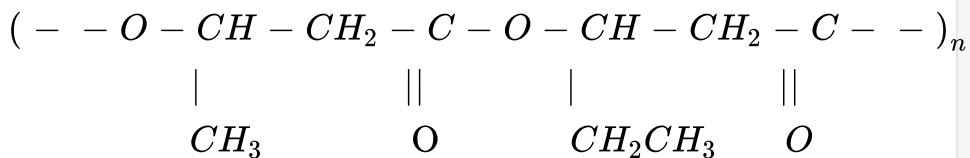
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31. Which of the following polymer is biodegradable ?





C.

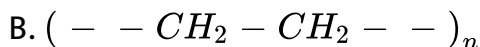


Answer: C

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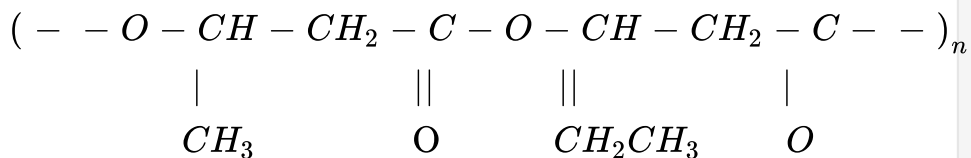
32. In which of the following polymers ethylene glycol is one of the monomer units ?

A. 



C. 

D.



Answer: A

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33. Which of the following statements is not true about low density polythene ?

A. Tough

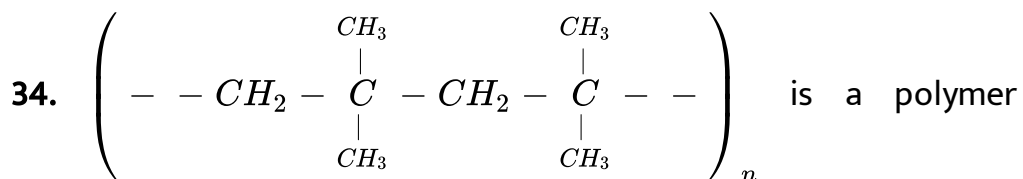
B. Hard

C. Poor conductor of electricity

D. Highly branched structure

Answer: C

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having monomer units

A. 

B. 

C. 

D. 

Answer: A

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35. Which of the following polymer can be formed by using the following monomer unit ?



- A. Nylon 6,6
- B. Nylon 2 - nylon 6
- C. Melamine polymer
- D. Nylon - 6

Answer: D

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36. Which of the following is not a biodegradable polymer?

- A. PBH
- B. SBR

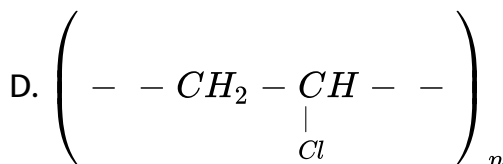
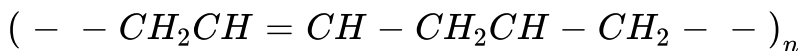
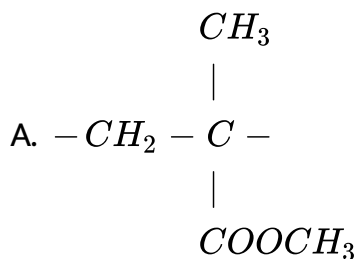
C. PBHV

D. PGL

Answer: B

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37. Which of the following is a copolymer ?



Answer: C

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38. Give monomers used and partial structure of Terylene (Dacron)

- A. phenol and formaldehyde
- B. ethylene glycol and phthalic acid
- C. adipic acid and hexamethylenediamine
- D. ethylene glycol and terephthalic acid

Answer: D

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39. Which of the following is not correct regarding terylene ?

A. Step - growth polymer

B. Synthetic fibre

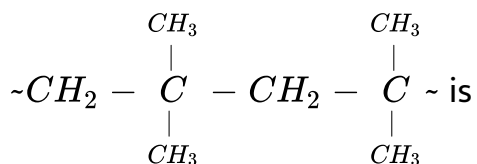
C. Condensation polymer

D. Thermosetting plastic

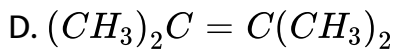
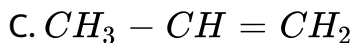
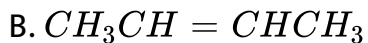
Answer: A

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40. The monomer of the polymer :



A. 



Answer: A



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41. The monomers of Buna -S rubber are

A. styrene and butadiene

B. isoprene and butadiene

C. vinyl chloride and sulphur

D. butadiene

Answer: A



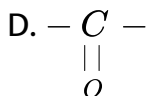
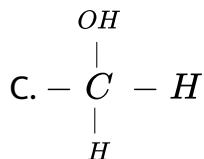
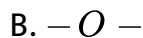
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42. Which of the following statements is not true ?

- A. Natural rubber has the trans - configuration at every double bond
- B. Buna - S is a copolymer of butadiene and styrene
- C. Natural rubber is a 1,4 - polymer of isoprene
- D. In vulcanization the formation of sulphur bridges between different chains make rubber harder and stronger

Answer: A

43. In bakelite , the rings are joined to each other through



Answer: A

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44. Which of the following statement is not correct ?

A. Caprolactam is the monomer of nylon - 6

B. Terylene is a polyester polymer

C. Phenol formaldehyde resin is known as bakelite

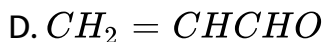
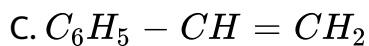
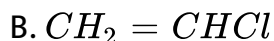
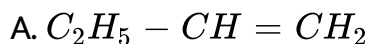
D. The monomer of natural rubber is butadiene

Answer: D

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45. Write the names and structures of the monomers of the following polymers :

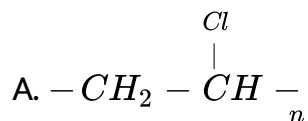
(i) Polystyrene, (ii) Dacron, (iii) Teflon,



Answer: A

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46. Which of the following represents neoprene polymer ?



B. 

C. 

D. 

Answer: C

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47. Polymer formation from monomers starts by :

A. condensation reaction between monomers

B. coordination reaction between monomers

C. conversation of monomer to monomer ions by protons

D. hydrolysis of monomers

Answer: A

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48. Nylon threads are made of :

A. Polyethylene polymer

B. polyvinyl polymer

C. Polyester polymer

D. Polyamide polymer

Answer: D

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49. Which of the following is fully fluorinated polymer ?

A. Neoprene

B. Teflon

C. Thiokol

D. PVC

Answer: B



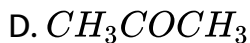
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50. Bakelite is a product of reaction between

A. HCHO

B. $(CH_2OH)_2$

C. CH_3CHO

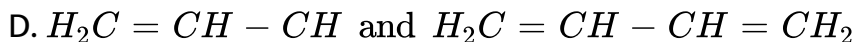
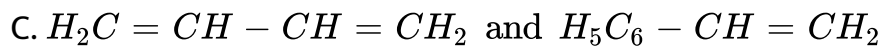
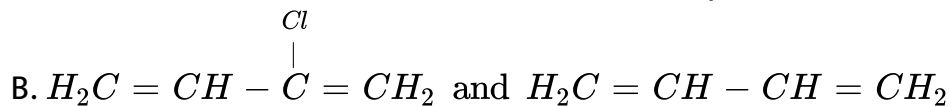
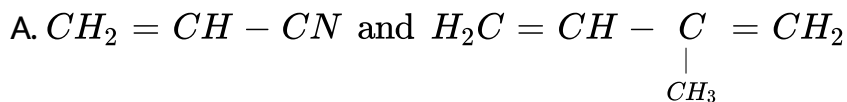


Answer: A

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Multiple Choice Questions Level Iii

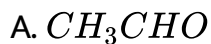
1. Buna - N synthetic rubber is a copolymer of



Answer: D

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2. Thermosetting polymer , bukelite is formed by the reaction of phenol with:



Answer: B

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3. The species which can best serve as an initiator for the cationic polymerisation is :

A. BaLi

B. $LiAlH_4$

C. HNO_3

D. $AlCl_3$

Answer: D



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4. Which one is classified as a condensation polymer ?

A. Dacron

B. Neoprene

C. Teflon

D. Acrylonitrile

Answer: A

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5. What polymer is used in the manufacture of paints and lacquers ?

- A. Bakelite
- B. Glyptal
- C. Polypropene
- D. Poly vinyl chloride

Answer: B

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1. The condensation polymer among the following is :

- A. Protein
- B. PVC
- C. Polythene
- D. Rubber

Answer: A



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2. The s-block element used as a catalyst in the manufacture of Buna-S rubber is

- A. Mg
- B. Ca

C. Ba

D. Na

Answer: D

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3. In Buna-S, the symbol 'Bu' stands for

A. 1- butene

B. n- butene

C. 2- butene

D. butadiene.

Answer: D

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4. Terylene is NOT

- A. Copolymer
- B. Polyester fiber
- C. Chain growth polymer
- D. Step growth polymer

Answer: C



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5. Orlon has monomeric unit

- A. Vinyl cyanide
- B. Acrolein
- C. Isoprene

D. Glycol.

Answer: A

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6. Nylon -6, 6 is an example of a polymer formed by :

- A. Chain growth polymerization
- B. Crossed linked polymerization
- C. Addition polymerization.
- D. Step growth polymerization

Answer: D

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7. Which of the following will form a biodegradable polymer?

- A. Glycine and amino caproic acid
- B. Ethylene glycol and phthalic acid
- C. Hexamethylene diamine and adipic acid
- D. 1, 3- butadiene and acrylonitrile .

Answer: A



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