



CHEMISTRY

BOOKS - SAI CHEMISTRY (TELUGU ENGLISH)

POLYMERS



1. The polymer obtained with methlene bridges by condensation polymer

- A. PVC
- B. Buna-S
- C. Poly acrylonitrile
- D. Bakelite

Answer: D



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2. Identify the condensation homopolymer from the following.

$$B. \xrightarrow{\text{[-och_2-ch_2-o-co-]}_n}$$

C.
$$\left\{ \text{CO-(CH}_2)_5 - \text{NH} \right\}_n$$

D.
$$\frac{\{NH-(CH_2)_6-NH-CO-(CH_2)_4-CO\}_n}{\{NH-(CH_2)_6-NH-CO-(CH_2)_4-CO\}_n}$$

Answer: C



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3. Identify the copoloymer from the following

$$\textbf{A.} \quad \left\{ \text{CH}_{1} - \text{CH} - \text{CH}_{2} - \text{CH}_{2} - \text{CH}_{3} \right\}_{n}$$

B.
$$\frac{1}{1}$$
 CF₂ $-$ CF₂ $\frac{1}{1}$

Answer: A



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4. Example of a biodegradable polymer pair is

a

A. nylon-6,6 and terylene

- B. PHBV and dextron
- C. Bakelite and PVC
- D. PET and polythene

Answer: B



- **5.** The monomer of neoprene is
 - A. 1,3 butadine
 - B. 2-chloro-1,3 butadine

C. 2-methyl-1,3 butadine

D. vinyl chloride

Answer: B



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6. Which one of the following is not a biopolymer?

A. Cellulose

B. Nylon-6

C. Insulin

D. DNA

Answer: B



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7. If the number average molecular weight and weight average molecular weight of a polymer are 40000 and 60000 respectively,the polydispersity index of thre polymer will be

A. gt 1

B. lt 1

C. 1

D. Zero

Answer: A



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8. If \overline{M}_e is the weight average molecular weight and \overline{M}_e is the number average molecular weight of a polymer, the poly dispersity index (PDI) of the polymer is given

by

A.
$$rac{M_{\,n}}{\overline{M}_{\,w}}$$

B.
$$\frac{M_w}{\overline{M_n}}$$

C.
$$\overline{M}_w imes \overline{M}_n$$

D.
$$rac{1}{\overline{M}_w imes \overline{M}_n}$$

Answer: B



9. Which of the following is a biodegradable polymer?

A. Polythene

B. Bakelite

C. PHBV

D. PVC

Answer: C



1. The polymer obtained with methlene bridges by condensation polymer

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Answer: D



2. Identify the condensation homopolymer from the following.

$$A. \xrightarrow{-CH_2 \xrightarrow{OH}} \xrightarrow{CH_2} \xrightarrow{OH} \xrightarrow{CH_3-}$$

B.
$$\{och_2-ch_2-o-co-\{o\}-co\}_n$$

C.
$$\frac{\left[\text{CO-(CH}_2)_5-\text{NH}\right]_n}{\left[\text{CO-(CH}_2)_5-\text{NH}\right]_n}$$

$$\mathsf{D}_{\bullet}^{\text{-}\text{-}\text{NH--}(CH_2)_6\text{--}\text{NH--}CO--}(CH_2)_4\text{--}CO}_n$$

Answer: C



3. Identify the copoloymer from the following

$$\textbf{A.} ~^{\left\{\text{ch,-ch-ch-ch,-ch-ch,-}\right\}_n}$$

B.
$$\frac{1}{2}$$
 CF_2 $-CF_2$ $\frac{1}{2}$

D.
$$\begin{array}{c} \left\{ \text{CH}_2 - \text{CH} \right\}_n \end{array}$$

Answer: A



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Answer: B



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