

PYQSide

NEET POLYMERS — PYQS

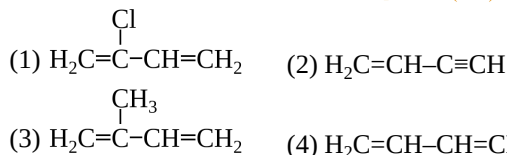
Max. Marks: 124

Questions: 31

Section A (MCQ)

- Q.1** Which amongst the following molecules on polymerization produces neoprene?

[NEET (UG) 2023]



Scan or tap for the full solution



- Q.2** Which statement regarding polymers is not correct?

[NEET (UG) 2022]

- (1) Elastomers have polymer chains held together by weak intermolecular forces
- (2) Fibers possess high tensile strength
- (3) Thermoplastic polymers are capable of repeatedly softening and hardening on heating and cooling respectively
- (4) Thermosetting polymers are reusable

Scan or tap for the full solution



- Q.3** Which among the following is a thermoplastic polymer?

[NEET (UG) 2022 (Phase 2)]

- (1) Melamine polymer
- (2) Bakelite
- (3) Polythene
- (4) Urea-formaldehyde resin

Scan or tap for the full solution



- Q.4** Which one of the following polymers is prepared by addition polymerisation?

[NEET (UG) 2021]

- (1) Dacron (2) Teflon
- (3) Nylon-66 (4) Novolac

Scan or tap for the full solution



- Q.5** Which of the following is a natural polymer?

[NEET (UG) 2020]

- (1) poly (Butadiene-styrene)
- (2) polybutadiene
- (3) poly (Butadiene-acrylonitrile)
- (4) cis-1,4-polyisoprene

Scan or tap for the full solution



- Q.6** The biodegradable polymer is : [NEET (UG) 2019]

- (1) nylon-6 (2) Buna-S
- (3) nylon-6, 6 (4) nylon-2-nylon 6

Scan or tap for the full solution



- Q.7** Regarding cross-linked or network polymers, which of the following statements is incorrect?

[NEET 2018]

- (1) They contain covalent bonds between various linear polymer chains.
- (2) They are formed from bi- and tri-functional monomers.
- (3) Examples are bakelite and melamine.
- (4) They contain strong covalent bonds in their polymer chains.

Scan or tap for the full solution



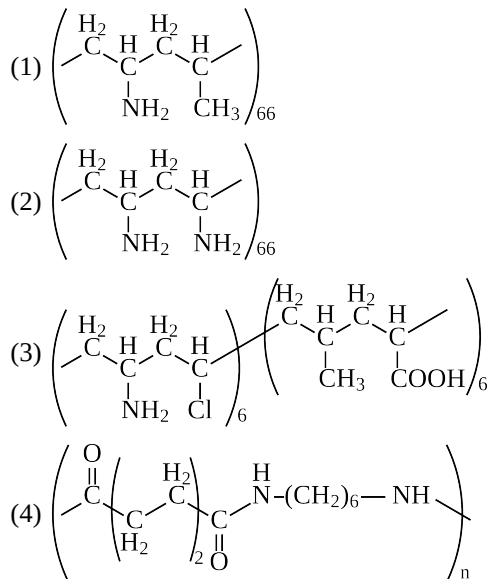
- Q.8** Natural rubber has [NEET 2016 (Phase 1)]

- (1) alternate cis- and trans-configuration
- (2) random cis- and trans-configuration
- (3) all cis-configuration
- (4) all trans-configuration.

Scan or tap for the full solution



- Q.9** Which one of the following structures represents nylon 6, 6 polymer? [NEET 2016 (Phase 2)]



Scan or tap for the full solution 

Q.10 Caprolactam is used for the manufacture of

[AIPMT 2015]

- (1) teflon (2) terylene
(3) nylon 6, 6 (4) nylon 6

Scan or tap for the full solution 

Q.11 Biodegradable polymer which can be produced from glycine and aminocaproic acid is

[AIPMT 2015 (Cancelled)]

- (1) buna - N (2) nylon 6, 6
(3) nylon 2-nylon 6 (4) PHBV

Scan or tap for the full solution 

Q.12 Which of the following organic compounds polymerizes to form the polyester dacron?

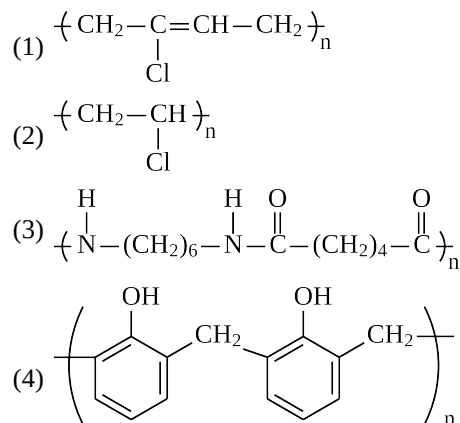
[AIPMT 2014]

- (1) Propylene and para $\text{HO}-(\text{C}_6\text{H}_4)-\text{OH}$
(2) Benzoic acid and ethanol
(3) Terephthalic acid and ethylene glycol
(4) Benzoic acid and para $\text{HO}-(\text{C}_6\text{H}_4)-\text{OH}$

Scan or tap for the full solution 

Q.13 Which one of the following is an example of thermosetting polymer?

[AIPMT 2014]



Scan or tap for the full solution 

Q.14 Nylon is an example of

[NEET 2013]

- (1) polyamide (2) polythene
(3) polyester (4) polysaccharide.

Scan or tap for the full solution 

Q.15 Which is the monomer of neoprene in the following?

[NEET 2013]

- (1) $\text{CH}_2=\underset{\text{Cl}}{\text{C}}-\text{CH}=\text{CH}_2$ (2) $\text{CH}_2=\text{CH}-\text{C}\equiv\text{CH}$
(3) $\text{CH}_2=\text{CH}-\text{CH}=\text{CH}_2$ (4) $\text{CH}_2=\underset{\text{CH}_3}{\text{C}}-\text{CH}=\text{CH}_2$

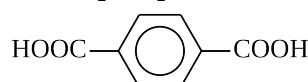
Scan or tap for the full solution 

Q.16 Which one of the following sets forms the biodegradable polymer?

[AIPMT 2012 (Mains)]

- (1) $\text{CH}_2=\text{CH}-\text{CN}$ and $\text{CH}_2=\text{CH}-\text{CH}=\text{CH}_2$
(2) $\text{H}_2\text{N}-\text{CH}_2-\text{COOH}$ and $\text{H}_2\text{N}-(\text{CH}_2)_5-\text{COOH}$

- (3) $\text{HO}-\text{CH}_2-\text{CH}_2-\text{OH}$ and



- (4) $\text{C}_6\text{H}_5-\text{CH}=\text{CH}_2$ and $\text{CH}_2=\text{CH}-\text{CH}=\text{CH}_2$

Scan or tap for the full solution 

Q.17 Which one of the following is not a condensation polymer?

[AIPMT 2012 (Prelims)]

- (1) Melamine (2) Glyptal
(3) Dacron (4) Neoprene

Scan or tap for the full solution 

Q.18 Which of the following statements is false?

[AIPMT 2012 (Prelims)]

- (1) Artificial silk is derived from cellulose.
- (2) Nylon-6, 6 is an example of elastomer.
- (3) The repeat unit in natural rubber is isoprene.
- (4) Both starch and cellulose are polymers of glucose.

Scan or tap for the full solution



Q.19 Of the following which one is classified as polyester polymer? [AIPMT 2011 (Prelims)]

- (1) Terylene
- (2) Bakelite
- (3) Melamine
- (4) Nylon-6,6

Scan or tap for the full solution



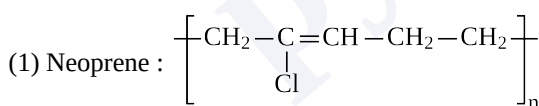
Q.20 Which of the following structures represents neoprene polymer? [AIPMT 2010 (Prelims)]

- (1) $\left[-\text{CH}_2 - \underset{\text{Cl}}{\underset{|}{\text{C}}} = \text{CH} - \text{CH}_2 - \right]_n$
- (2) $\left[-\text{CH}_2 - \underset{\text{Cl}}{\underset{|}{\text{CH}}} - \right]_n$
- (3) $\left[-\text{CH}_2 - \underset{\text{CN}}{\underset{|}{\text{CH}}} - \right]_n$
- (4) $\left[-\underset{\text{C}_6\text{H}_5}{\underset{|}{\text{CH}}} - \text{CH}_2 - \right]_n$

Scan or tap for the full solution



Q.21 Structures of some common polymers are given. Which one is not correctly presented? [AIPMT 2009]



(2) Terylene :



(3) Nylon 6,6 :



(4) Teflon : $\left[\text{CF}_2 - \text{CF}_2 - \right]_n$

Scan or tap for the full solution



Q.22 Which one of the following statements is not true? [AIPMT 2008]

- (1) Buna-S is a copolymer of butadiene and styrene.
- (2) Natural rubber is a 1,4-polymer of isoprene.
- (3) In vulcanization, the formation of sulphur bridges between different chains makes rubber harder and stronger.
- (4) Natural rubber has the trans-configuration at every double bond.

Scan or tap for the full solution



Q.23 Which one of the following polymers is prepared by condensation polymerisation? [AIPMT 2007]

- (1) Teflon
- (2) Natural rubber
- (3) Polystyrene
- (4) Nylon-6,6

Scan or tap for the full solution



Q.24 $\sim[\text{NH}(\text{CH}_2)_6\text{NHCO}(\text{CH}_2)_4\text{CO}]_n\sim$

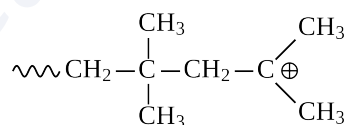
is a

- (1) homopolymer
- (2) copolymer
- (3) addition polymer
- (4) thermosetting polymer.

[AIPMT 2006]

Q.25 The monomer of the polymer

[AIPMT 2005]



- (1) $\text{H}_2\text{C} = \underset{\text{CH}_3}{\underset{|}{\text{C}}}(\text{CH}_3)$
- (2) $\text{CH}_3\text{CH} = \text{CHCH}_3$
- (3) $\text{CH}_3\text{CH} = \text{CH}_2$
- (4) $(\text{CH}_3)_2\text{C} = \text{C}(\text{CH}_3)_2$

Scan or tap for the full solution



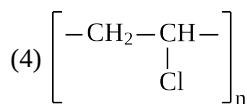
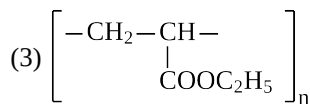
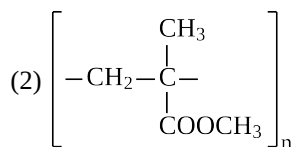
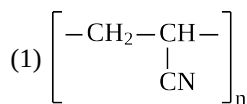
Q.26 Which one of the following is a chain growth polymer? [AIPMT 2004]

- (1) Starch
- (2) Nucleic acid
- (3) Polystyrene
- (4) Protein

Scan or tap for the full solution



Q.27 Acrilan is a hard, horny and a high melting material. Which one of the following represents its structure? [AIPMT 2003]

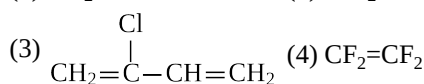


Scan or tap for the full solution



Q.28 Which one of the following monomers gives the polymer neoprene on polymerization?

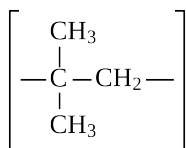
[AIPMT 2003]



Scan or tap for the full solution



Q.29 Monomer of



is

[AIPMT 2002]

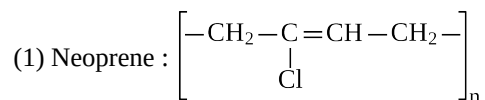
- (1) 2-methylpropene (2) styrene
(3) propylene (4) ethene

Scan or tap for the full solution

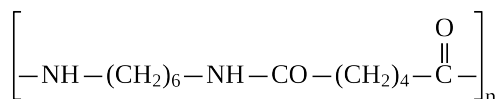


Q.30 Which of the following is not correctly matched?

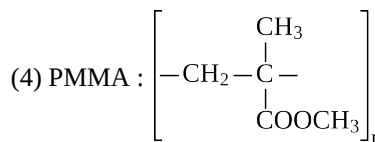
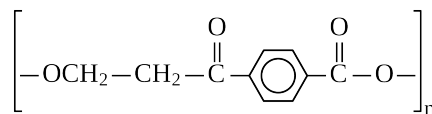
[AIPMT 2001]



(2) Nylon-6,6 :



(3) Terylene :



Scan or tap for the full solution



Q.31 $\text{CF}_2=\text{CF}_2$ is the monomer of [AIPMT 2000]

- (1) teflon (2) orlon
(3) polythene (4) nylon-6

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	1	4	3	2	4	4	4	3	4	4	3
Ques.	12	13	14	15	16	17	18	19	20	21	22
Ans.	3	4	1	1	2	4	2	1	1	1	4
Ques.	23	24	25	26	27	28	29	30	31		
Ans.	4	2	1	3	1	3	1	3	1		