EdLoop

EdLoop EAPCET

CHEMISTRY · EAPCET (EAMCET)

Polymers

Previous Year Questions with answers

115 questions · **109** papers · **2010–2026** · newest paper first

Step-by-step solutions for every question: free in the EdLoop EAPCET app (Google Play) · pyq.edloop.in

What is in this PDF: every Polymers question we hold from past AP and TS EAPCET (called EAMCET until 2020 in Andhra Pradesh and 2023 in Telangana) papers, with its options and answer. Where an answer comes from a source other than the official final key, it says so next to the answer.

Step-by-step solutions for every question are free in the EdLoop EAPCET app (Google Play) and on app.edloop.in. More chapters: pyq.edloop.in/free-pdfs/

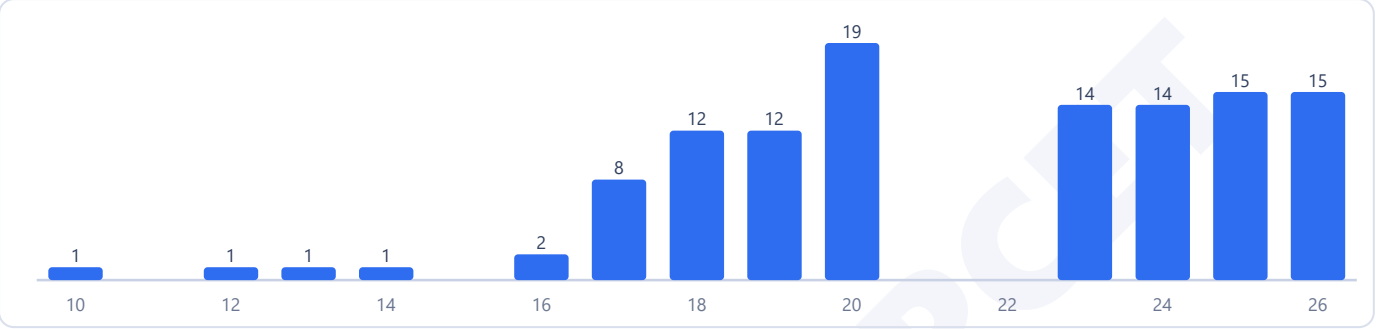
EdLoop

Chapter at a glance

1.9%	115	58 of 77	115 / 0
of Chemistry questions, 2022–2026	questions, 2010–2026	papers asked it, 2022–2026	MCQ / numerical, 2010–2026

Trend. Rising: 1 questions per paper in 2024–2026 against 0.5 in 2022–2023.

Questions per year



Counts are the questions we hold: 115 in 109 papers. No question in this chapter was found repeated across papers.

Most-asked topics in this chapter (2010–2026)

Polymers	115

How often it comes up

Polymers represents a compact and straightforward component of the senior secondary organic syllabus. Over the historical period from 2010 to 2026, Polymers generated 115 questions across 149 evaluated test sittings, appearing in 109 papers to average 0.8 questions per paper and a 1.9 percent subject share. Modern test cycles from 2022 to 2026 reflect an identical general frequency: examiners set 58 questions across 77 sittings, appearing in 58 papers to record 0.8 questions per test and a 1.9 percent share. This volume places Polymers at rank 27 of 31 chemistry chapters.

The chapter does not appear in every sitting, and it was entirely absent from the 2022 exam cycle before returning consistently. Across the most recent three calendar sessions from 2024 to 2026, the topic supplied 44 questions across 46 papers, featuring in 44 sittings for an average of 1.0 question per test and a 2.4 percent share. In the earlier testing era from 2010 to 2021, examiners set 57 questions across 72 sittings (present in 51 papers, averaging 0.8 per test and a 2.0 percent share). Evaluating the trajectory, comparing early testing with the last three years shows the share is about the same, while comparing recent testing with the last three years shows the share is up. Across regional boards between 2022 and 2026, Andhra Pradesh administered 35 questions across 48 papers (appearing in 35 papers, 0.7 per test, 1.8 percent share), while Telangana administered 23 questions across 29 papers (appearing in 23 papers, 0.8 per test, 2.0 percent share).

Most-asked topics

Because the official curriculum groups this subject into a single unified heading, questions focus on fundamental classification, monomer pairing, and industrial polymer structures:

- **Polymers** (115 questions overall, 58 recent, last asked in 2026): Addition versus condensation polymer mechanisms, homopolymer versus copolymer distinctions, natural and synthetic rubbers (isoprene, chloroprene, Buna-S, Buna-N), thermosetting versus thermoplastic resins (Bakelite, melamine-formaldehyde, polystyrene, polyvinyl chloride), synthetic fibers (nylon six, nylon six-six, Terylene or Dacron), and biodegradable polymers such as PHBV and nylon two-nylon six.

What the questions look like

EAPCET polymer problems are straightforward memory and identification items that test monomer formulas, linkage classes, and physical property categorizations.

A very common question asks students to name the exact monomer precursors for synthetic elastomers like Buna-S (one-three-butadiene and styrene) or Buna-N (one-three-butadiene and acrylonitrile). Another recurring template presents four commercial polymers and requires candidates to classify them into elastomers, fibers, thermoplastics, or thermosetting plastics based on intermolecular forces. Questions also frequently ask candidates to determine which condensation polymer contains ester linkages (polyesters like Terylene and Glyptal) or amide linkages (polyamides like nylon six-six), or to identify the monomers of biodegradable copolymer PHBV (three-hydroxybutanoic acid and three-hydroxypentanoic acid).

How to practise it

Prepare a concise two-column reference table. On the left side, list every polymer named in the standard textbook; on the right side, write its exact IUPAC and common monomer names, whether it forms via addition or step-growth condensation, and the small elimination product (water, alcohol, or hydrogen chloride) if applicable.

Ensure that you can clearly differentiate between natural rubber (cis-one-four-polyisoprene) and gutta-percha (trans-one-four-polyisoprene). Pay special attention to vulcanization of rubber using elemental sulfur, which introduces cross-links across reactive double bonds. Finally, review the structures and applications of newer biodegradable materials like PHBV and nylon two-nylon six, which appear regularly in recent paper cycles.

EdLoop EAPCET

Q1 AP EAPCET 2026 · 18 May · Shift 1 MCQ

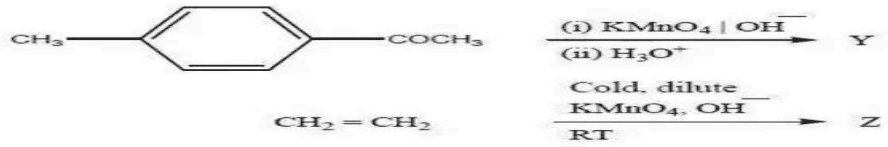
Identify the polymer X formed from the monomers Y and Z

(Cold, dilute)

(see the figure above)

Identify the polymer X formed from the monomers Y and Z

మోనోమర్ లు Y మరియు Z లచే ఏర్పడే పాలిమర్ (X) ను గుర్తించుము
(Cold, dilute = చల్లని, విలీన)



Options :

1. Terylene
   టెరిలీన్
2. Perlan – L
   పెర్లాన్ – L
3. Novolac
   నోవోలాక్
4. polyacrylonitrile
   పాలీఎక్రిలోనైట్రైల్

(A) Terylene
(B) Perlan – L
(C) Novolac
(D) polyacrylonitrile

Answer: (A) Terylene · The council's preliminary key

Q2 AP EAPCET 2026 · 18 May · Shift 2 MCQ

Which of the following is not an example of copolymer?

(A) Bakelite
(B) Dacron
(C) Buna-N
(D) Perlan-L

Answer: (D) Perlan-L · The council's preliminary key

Q3 AP EAPCET 2026 · 15 May · Shift 2 MCQ

Polymer (X) is used in the preparation of non-stick utensils and polymer (Y) is used in manufacture of unbreakable crockery. What are X and Y respectively?

(A) Addition copolymer ; condensation copolymer
(B) Addition homopolymer ; condensation copolymer
(C) Condensation homopolymer ; addition homopolymer
(D) Condensation copolymer ; addition copolymer

Answer: (B) Addition homopolymer ; condensation copolymer · The council's preliminary key

Q4 AP EAPCET 2026 · 14 May · Shift 1 MCQ

Which one of the polymers does not contain $-COO-$ linkage in its structure?

(A) Bakelite
(B) Glyptal
(C) PHBV
(D) Dacron

Answer: (A) Bakelite · The council's preliminary key

Q5 AP EAPCET 2026 · 14 May · Shift 2 MCQ

Consider the following polymerization reactions and the statements given about X and Y

A. $n C_6H_5CH = CH_2 \xrightarrow{RLi} X$

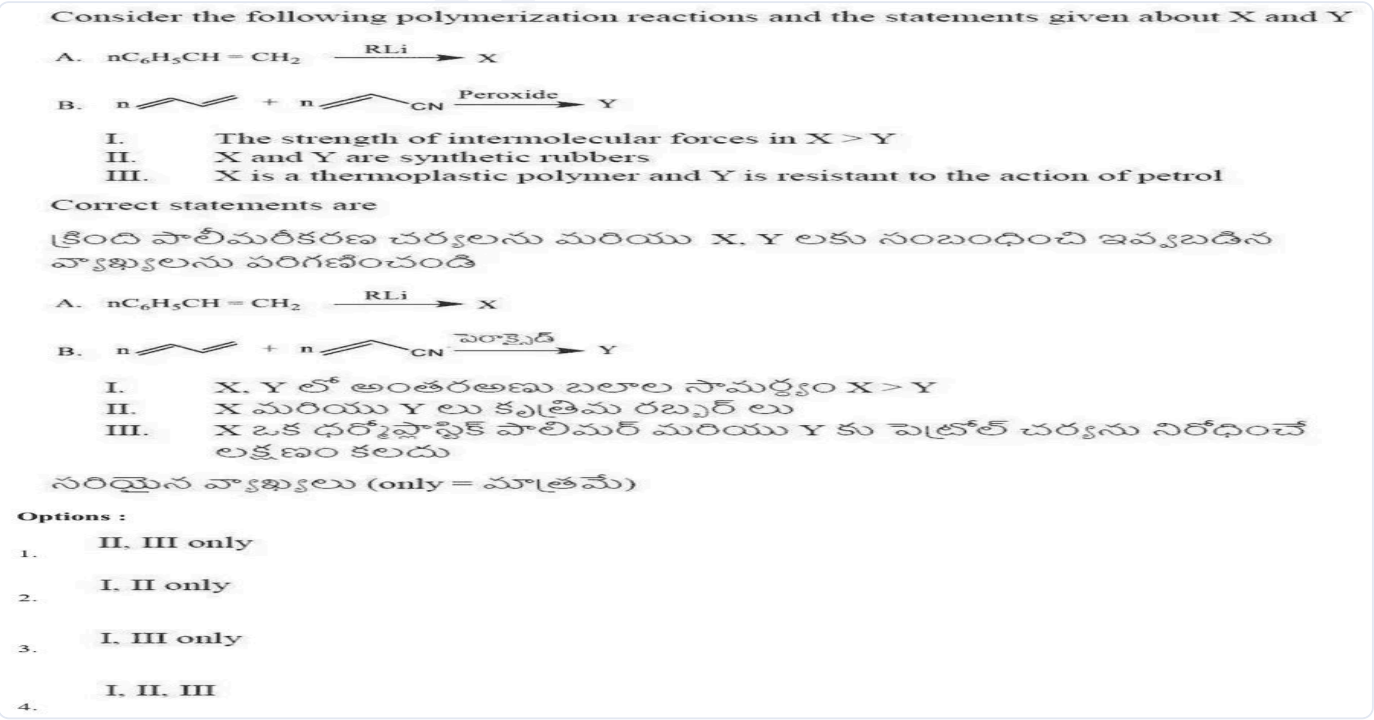
B. n *(see the figure above)* + n *(see the figure above)* $\xrightarrow{\text{Peroxide}}$ Y

I. The strength of intermolecular forces in X > Y

II. X and Y are synthetic rubbers

III. X is a thermoplastic polymer and Y is resistant to the action of petrol

Correct statements are



(A) II, III only
(B) I, II only
(C) I, III only
(D) I, II, III

Answer: (C) I, III only · The council's preliminary key

Q6 AP EAPCET 2026 · 13 May · Shift 1 MCQ

Consider the following statements

Statement-I: Polystyrene is a thermosetting polymer

Statement-II: Bakelite is a thermoplastic polymer

The correct answer is

(A) Both Statement-I and statement-II are correct
(B) Statement-I is correct but statement-II is not correct
(C) Statement-I is not correct but statement-II is correct
(D) Both Statement-I and statement-II are not correct

Answer: (D) Both Statement-I and statement-II are not correct · The council's preliminary key

Q7 AP EAPCET 2026 · 13 May · Shift 2 MCQ

The total number of carbon – carbon π – bonds present in the monomers of Buna – S rubber is

(A) 4
(B) 5
(C) 6
(D) 7

Answer: (C) 6 · The council's preliminary key

Q8 AP EAPCET 2026 · 12 May · Shift 1 MCQ

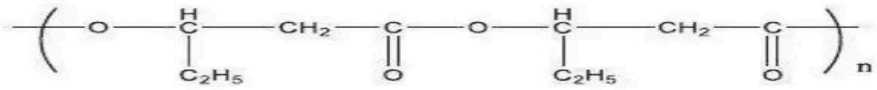
Which of the following represents the structure of the polymer PHBV?

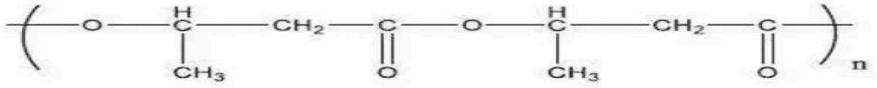
EdLoop EAPCET

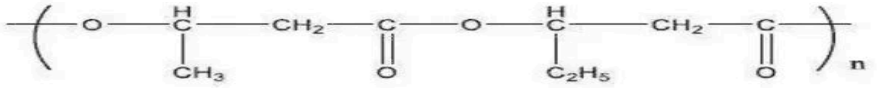
Which of the following represents the structure of the polymer PHBV?

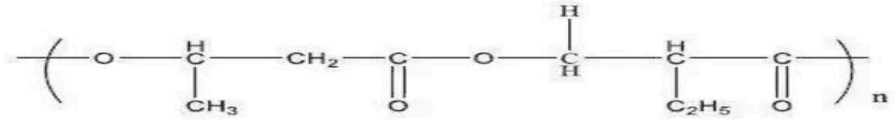
క్రింది వాటిలో ఏది PHBV పాలిమర్ యొక్క నిర్మాణాన్ని వ్యక్తం చేస్తుంది?

Options :

1. 

2. 

3. 

4. 

(A) *see figure*

(B) *see figure*

(C) *see figure*

(D) *see figure*

Answer: (C) · The council's preliminary key

Q9 AP EAPCET 2026 · 12 May · Shift 2 MCQ

Monomers of Buna-N are X and Y. The monomers of Buna-S are Y and Z. What are X, Y, Z respectively?

Monomers of Buna-N are X and Y. The monomers of Buna-S are Y and Z. What are X, Y, Z respectively?

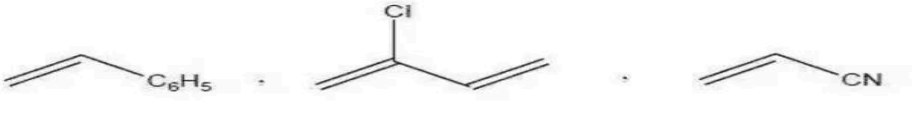
బ్యునా-N యొక్క మోనోమర్ లు X మరియు Y. బ్యునా-S యొక్క మోనోమర్ లు Y మరియు Z. X, Y, Z లు వరుసగా ఏవి?

Options :

1. 

2. 

3. 

4. 

(A) *see figure*
(B) *see figure*
(C) *see figure*
(D) *see figure*

Answer: (A) · The council's preliminary key

Q10 TS EAPCET 2026 · 11 May · Shift 1 MCQ

Observe the following polymerization reactions and statements given about them

(see the figure above)

I. Chain termination step is present in both reactions

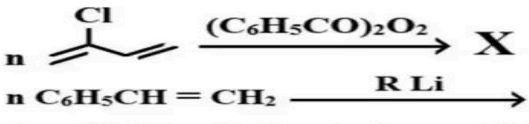
II. X is an elastomer and Y is a thermoplastic polymer

III. X is used in preparation of conveyer belts and Y is used in preparation of television cabinets

Correct statements are

Observe the following polymerization reactions and statements given about them

مندرجہ ذیل ہمہ سالمے سازی تعاملات اور ان کے بارے میں بیانات کا مشاہدہ کیجیے



I. Chain termination step is present in both reactions
II. X is an elastomer and Y is a thermoplastic polymer
III. X is used in preparation of conveyer belts and Y is used in preparation of television cabinets

I. دونوں تعاملات میں زنجیر اختتامی مرحلے موجود ہوتے ہیں
II. X لچکیلے ہمہ سالمے (ایلاسٹومر) ہیں اور Y تھرموسیٹنگ ہمہ سالمے ہیں
III. X کنوئیر بیلٹس کی تیاری میں استعمال ہوتے ہیں اور Y ٹیلی ویژن کیبینٹس کی تیاری میں استعمال ہوتے ہیں

Correct statements are

صحیح بیانات ہیں (only= صرف)

Options :

1. I, II, III
2. I, III only
3. I, II only
4. II, III only

(A) I, II, III
(B) I, III only
(C) I, II only
(D) II, III only

Answer: (D) II, III only · The council's preliminary key

Q11 TS EAPCET 2026 · 11 May · Shift 2 MCQ

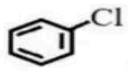
The polymer formed by X and Y is

I. $CH_4 + O_2 \xrightarrow[\Delta]{Mo_2O_3} X$

II. *(see the figure above)* $\xrightarrow[623\ \text{K},\ 300\ \text{atm}]{\text{(i) NaOH}}$ Y, followed by (ii) H^+

Yes
Correct Marks : 1 Wrong Marks : 0
The polymer formed by X and Y is
X, Y లచే ఏర్పడే పాలిమర్

I $CH_4 + O_2 \xrightarrow[\Delta]{Mo_2O_3} X$

II  $\xrightarrow[623\,\text{K},\ 300\ \text{atm}]{\text{(i) NaOH}}$ Y
(ii) H^+

Options :
1. Glyptal
గ్లిప్టాల్
2. Bakelite
బేకలైట్
3. Nylon 6, 6
నైలాన్ 6, 6
4. Dacron
డెక్రాన్

(A) Glyptal
(B) Bakelite
(C) Nylon 6, 6
(D) Dacron

Answer: (B) Bakelite · The council's preliminary key

Q12 TS EAPCET 2026 · 10 May · Shift 1 MCQ

The common monomer for Terylene and Glyptal is

(A) Ethylidene chloride
(B) Ethylene glycol
(C) Ethylene chloride
(D) Formaldehyde

Answer: (B) Ethylene glycol · The council's preliminary key

Q13 TS EAPCET 2026 · 10 May · Shift 2 MCQ

Identify the correctly matched pairs from the following sets

I. Addition copolymer ---------- $[NHCONHCH_2]_n$

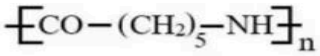
II. Condensation homopolymer --------- $[CO-(CH_2)_5-NH]_n$

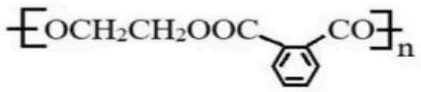
III. Condensation copolymer ---------- *(see the figure above)*

The correct answer is (only =)

Identify the correctly matched pairs from the following sets
క్రింది సమితుల నుంచి సరిగ్గా జత చేయబడిన జంటలను గుర్తించండి

I Addition copolymer ---------- 
సంకలన కోపాలిమర్

II Condensation homopolymer --------- 
సజాతీయ సంఘనన పాలిమర్

III Condensation copolymer ----------
సంఘనన కోపాలిమర్ 

The correct answer is (only = మాత్రమే)
సరియైన సమాధానం

Options :

1. I, III only
2. I, II, III
3. I, II only
4. II, III only

Prep
Your Personal Exams

(A) I, III only
(B) I, II, III
(C) I, II only
(D) II, III only

Answer: (D) II, III only · The council's preliminary key

Q14 TS EAPCET 2026 · 9 May · Shift 1 MCQ

Which of the following is not a condensation polymer?

(A) Teflon
(B) Bakelite
(C) Glyptal
(D) Dacron

Answer: (A) Teflon · The council's preliminary key

Q15 TS EAPCET 2026 · 9 May · Shift 2 MCQ

Natural Rubber is the addition polymer of monomer X and neoprene is the addition polymer of monomer Y. What are X and Y respectively?

(A) $CH_2 = C(Cl) - CH = CH_2$; $CH_2 = C(CN) - CH = CH_2$ [FIGURE: Cl substituent on C2 of the first diene; CN substituent on C2 of the second diene]

(B) $CH_2 = C(CN) - CH = CH_2$; $CH_2 = C(Cl) - CH = CH_2$ [FIGURE: CN substituent on C2 of the first diene; Cl substituent on C2 of the second diene]

(C) $CH_2 = C(CH_3) - CH = CH_2$; $CH_2 = C(Cl) - CH = CH_2$ [FIGURE: CH3 substituent on C2 of the first diene; Cl substituent on C2 of the second diene]

(D) $CH_2 = C(C_2H_5) - CH = CH_2$; $CH_2 = C(C_6H_5) - CH = CH_2$ [FIGURE: C2H5 substituent on C2 of the first diene; C6H5 substituent on C2 of the second diene]

Answer: (C) $CH_2 = C(CH_3) - CH = CH_2$; $CH_2 = C(Cl) - CH = CH_2$ **[FIGURE: CH3 substituent on C2 of the first diene; Cl substituent on C2 of the second diene]** · The council's preliminary key

Q16 AP EAPCET 2025 · 27 May · Shift 1 MCQ

The number of linear and crosslinked polymers in the following respectively are

Novolac, Nylon 6,6, Bakelite, PVC, melamine

(A) 1, 4

(B) 4, 1

(C) 2, 3

(D) 3, 2

Answer: (D) 3, 2 · The council's preliminary key

Q17 AP EAPCET 2025 · 26 May · Shift 1 MCQ

A polymer sample contains 10 molecules each with molecular mass 5,000 and 5 molecules each with molecular mass 50,000. The number average molecular mass of the polymer sample is

(A) 2×10^4

(B) 3×10^4

(C) 2×10^5

(D) 3×10^5

Answer: (A) 2×10^4 · The council's preliminary key

Q18 AP EAPCET 2025 · 26 May · Shift 2 MCQ

Which one of the statements, regarding X is not correct ?

3-Hydroxybutanoic acid + 3-Hydroxypentanoic acid $\longrightarrow$ X

(A) It is a condensation polymer
(B) It is non biodegradable
(C) It is used in orthopaedic devices
(D) It is known as PHBV

Answer: (B) It is non biodegradable · The council's preliminary key

Q19 AP EAPCET 2025 · 24 May · Shift 1 MCQ

Consider the following

Statement-I : Nylon 6 is a condensation copolymer.

Statement-II : Nylon 6, 6 is a condensation polymer of adipic acid and tetra methylene diamine.

The correct answer is

(A) Both statement-I and statement-II are correct
(B) Statement-I is correct, but statement-II is not correct
(C) Statement-I is not correct, but statement-II is correct
(D) Both statement-I and statement-II are not correct

Answer: (D) Both statement-I and statement-II are not correct · The council's preliminary key

Q20 AP EAPCET 2025 · 23 May · Shift 1 MCQ

Match the following.

List-I (Polymer)	List-II (Used in making)
A) $[-\mathrm{CF_2}-\mathrm{CF_2}-]_n$	I) Safety Helmets
B) $[-\mathrm{CH_2}-\mathrm{CH(CN)}-]_n$	II) Gaskets
C) *(see the figure above)*	III) Laminated sheets
D) $[-\mathrm{NHCONHCH_2}-]_n$	IV) Commercial fibres
	V) Paints

Correct answer is

EdLoop EAPCET

Match the following.
క్రింది వానిని జతపరుచుము.

List-I (Polymer) జాబితా-I (పాలిమర్)	List-II (Used in making) జాబితా-II (తయారీలో వాడతారు)
A) $-\{-CF_2-CF_2-\}_n$	I) Safety Helmets సురక్షిత హెల్మెట్‌లు
B) $-\{-CH_2-\underset{\underset{CN}{\vert}}{CH}-\}_n$	II) Gaskets గాస్కెట్‌లు
C) $-\{-OCH_2CH_2O-\overset{\overset{O}{\Vert}}{C}-C_6H_4-\overset{\overset{O}{\Vert}}{C}-\}_n$	III) Laminated sheets లామినేటెడ్ పలకలు
D) $-\{-NHCONHCH_2-\}_n$	IV) Commercial fibres వాణిజ్య పోగులు
	V) Paints పెయింట్‌లు

Correct answer is
సరియైన సమాధానం

Options :

1. A-III, B-V, C-I, D-II
2. A-I, B-II, C-IV, D-III
3. A-II, B-IV, C-I, D-III
4. A-II, B-IV, C-V, D-I

(A) A-III, B-V, C-I, D-II

(B) A-I, B-II, C-IV, D-III

(C) A-II, B-IV, C-I, D-III

(D) A-II, B-IV, C-V, D-I

Answer: (C) A-II, B-IV, C-I, D-III · The council's preliminary key

Q21 AP EAPCET 2025 · 23 May · Shift 2 MCQ

What are X and Y in the following reaction ? (l = liquid)

$$n\mathrm{ClCH=CH_2} \xrightarrow{X} Y$$

(A) $\mathrm{Na/NH_3}(l)$ - thermosetting polymer

(B) $(\mathrm{C_6H_5COO})_2$ - thermoplastic polymer

(C) $\mathrm{Na/NH_3}(l)$ - condensation polymer

(D) $(\mathrm{C_6H_5COO})_2$ - Network polymer

Answer: (B) $(\mathrm{C_6H_5COO})_2$ - thermoplastic polymer · The council's preliminary key

Q22 AP EAPCET 2025 · 22 May · Shift 1 MCQ

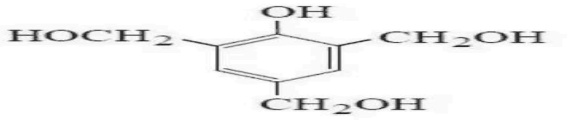
Novolac is formed by the polymerisation of monomer 'x' in the presence of $\mathrm{OH^-}$ ions. What is 'x' ?

Novolac is formed by the polymerisation of monomer 'x' in the presence of OH^- ions. What is 'x' ?
'x' అను మోనోమర్‌ను OH^- సమక్షంలో పాలిమరీకరణం చెందిస్తే నొవొలాక్ ఏర్పడుతుంది. 'x' అనునది ఏది ?

Options :

1. 

2. 

3. 

4. 

(A) *see figure*
(B) *see figure*
(C) *see figure*
(D) *see figure*

Answer: (A) · The council's preliminary key

Q23 AP EAPCET 2025 · 21 May · Shift 1 MCQ

In which polymer preparation, Ziegler - Natta catalyst is used ?

(A) Low density polythene
(B) Teflon
(C) Polyacrylonitrile
(D) High density polythene

Answer: (D) High density polythene · The council's preliminary key

Q24 AP EAPCET 2025 · 21 May · Shift 2 MCQ

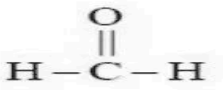
Which of the following is the common monomer for the polymers Bakelite and Melamine ?

Which of the following is the common monomer for the polymers Bakelite and Melamine ?

బేకలైట్ మరియు మెలమైన్ పాలిమర్‌లలో ఉమ్మడిగా ఉన్న మోనోమర్ ఏది ?

Options :

1. 

2. 

3. $HO-CH_2-CH_2-OH$

4. CH_3-OH

(A) *see figure*

(B) $H-C-H$ with a double-bonded O above the C (formaldehyde, HCHO)

(C) $HO-CH_2-CH_2-OH$

(D) CH_3-OH

Answer: (B) $H-C-H$ **with a double-bonded O above the C (formaldehyde, HCHO)** · The council's preliminary key

Q25 TS EAPCET 2025 · 4 May · Shift 1 MCQ

Polymer X is an example of polyester and Y is an example of polyamide. X and Y are respectively

(A) Novolac, Terylene

(B) Dacron, Nylon 6,6

(C) Nylon 6, Terylene

(D) Teflon, Terylene

Answer: (B) Dacron, Nylon 6,6 · The council's preliminary key

Q26 TS EAPCET 2025 · 4 May · Shift 2 MCQ

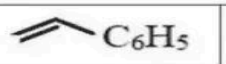
The polymer chains are held together by hydrogen bonding in a polymer X. Polymer X is formed from monomers Y and Z. What are Y and Z?

(see the figure above)

: Yes
Correct Marks : 1 Wrong Marks : 0

Visit CollegeDek

The polymer chains are held together by hydrogen bonding in a polymer X. Polymer X is formed from monomers Y and Z. What are Y and Z?
పాలిమర్ X లో పాలిమర్ శృంఖలాలు హైడ్రోజన్ బంధాల చేత బంధితమై ఉంటాయి. Y మరియు Z మొనోమర్ ల నుండి పాలిమర్ X ఏర్పడింది. Y మరియు Z లు ఏవి?

	$H_2N(CH_2)_6NH_2$			$HO_2C+CH_2+_4CO_2H$
A	B	C	D	E

Options :
1. A, C
2. B, E
3. C, D
4. A, A

(A) A, C
(B) B, E
(C) C, D
(D) A, A

Answer: (B) B, E · The council's preliminary key

Q27 TS EAPCET 2025 · 3 May · Shift 1 MCQ

Neoprene is the polymer of a monomer X. IUPAC name of X is

(A) 1,3 -Butadiene
(B) 2-Methyl-1,3-butadiene
(C) 2-Iodo-1,3-butadiene
(D) 2-Chloro-1,3-butadiene

Answer: (D) 2-Chloro-1,3-butadiene · The council's preliminary key

Q28 TS EAPCET 2025 · 3 May · Shift 2 MCQ

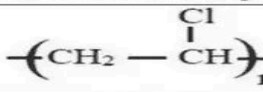
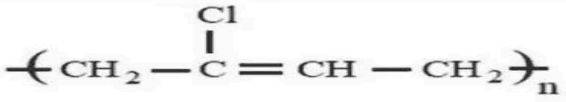
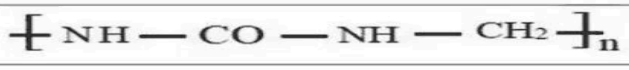
Match the following

List – 1 (Type of polymer)		List – 2 (Structure of the example)	
A	Fibre	I	*(see the figure above)*
B	Elastomer	II	*(see the figure above)*

C	Thermosetting polymer	III	*(see the figure above)*
D	Thermoplastic polymer	IV	*(see the figure above)*

The correct answer is

Match the following
క్రింది వాటిని జతపరుచుము

List – 1 (Type of polymer) జాబితా – 1 (పాలిమర్ రకం)		List – 2 (Structure of the example) జాబితా – 2 (ఉదాహరణ యొక్క నిర్మాణం)	
A	Fibre పోగు	I	
B	Elastomer ఎలాస్టోమర్	II	
C	Thermosetting polymer ఉష్ణధృడ పాలిమర్	III	
D	Thermoplastic polymer థర్మోప్లాస్టిక్ పాలిమర్	IV	

The correct answer is
సరైన సమాధానం
Options :
1. A – II, B – IV, C – I, D – III
2. A – II, B – III, C – IV, D – I
3. A – III, B – I, C – IV, D – II
4. A – III, B – II, C – IV, D – I

(A) A – II, B – IV, C – I, D – III
(B) A – II, B – III, C – IV, D – I
(C) A – III, B – I, C – IV, D – II
(D) A – III, B – II, C – IV, D – I

Answer: (B) A – II, B – III, C – IV, D – I · The council's preliminary key

Q29 TS EAPCET 2025 · 2 May · Shift 1 MCQ

'X' is a polymer, which is mainly used for making unbreakable cups and laminated sheets. The monomers of 'X' are

(A) Urea and formaldehyde
(B) Ethylene glycol and phthalic acid
(C) Phenol and formaldehyde
(D) 1,3-Butadiene and styrene

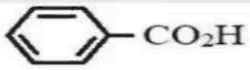
Answer: (A) Urea and formaldehyde · The council's preliminary key

Q30 TS EAPCET 2025 · 2 May · Shift 2 MCQ

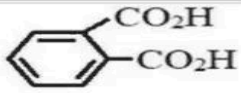
Ethylene on reaction with cold, dilute alkaline $KMnO_4$ at 273 K gives a compound 'P'. This on polymerisation with which of the following gives dacron?

Ethylene on reaction with cold, dilute alkaline $KMnO_4$ at 273 K gives a compound 'P'. This on polymerisation with which of the following gives dacron?
ఎథిలీన్ చల్లని, విలీన క్షార $KMnO_4$ తో 273 K వద్ద చర్యనొంది 'P' అను సమ్మేళనంను ఇస్తుంది. ఇది క్రింది వాటిలో దేనితో పాలిమరీకరణం చెంది డెక్రాన్ ను ఇస్తుంది?

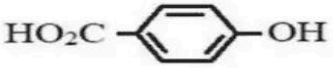
Options :

1. 

2. 

3. 

Visit CollegeDek

4. 

(A) *see figure*
(B) *see figure*
(C) *see figure*
(D) *see figure*

Answer: (B) · The council's preliminary key

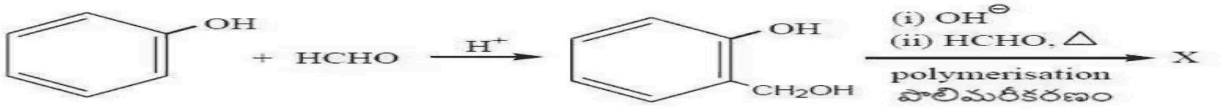
Q31 AP EAPCET 2024 · 23 May · Shift 1 MCQ

The X formed in the following reaction sequence and its structural type are respectively

(see the figure above)

Time : 0

The X formed in the following reaction sequence and its structural type are respectively
క్రింది చర్యా క్రమంలో ఏర్పడిన X మరియు దాని నిర్మాణ రకం వరుసగా



Options :

1. Novolac – linear polymer
నొవోలాక్ – రేఖీయ పాలిమర్

2. Bakelite – cross linked polymer
బేకలైట్ – జాలక పాలిమర్

3. Novolac - cross linked polymer
నొవోలాక్ – జాలక పాలిమర్

4. Bakelite – linear polymer
బేకలైట్ – రేఖీయ పాలిమర్

(A) Novolac – linear polymer
(B) Bakelite – cross linked polymer
(C) Novolac - cross linked polymer
(D) Bakelite – linear polymer

Answer: (B) Bakelite – cross linked polymer · The council's preliminary key

Q32 AP EAPCET 2024 · 22 May · Shift 1 MCQ

Match the following

List-I (Polymers)	List-II (Type)
A Buna-N-Rubber	I Fibre
B Terylene	II Thermosetting polymer
C Polystyrene	III Elastomer
D Urea-Formaldehyde resin	IV Thermoplastic polymer

(A) A - III, B - I, C - IV, D - II
(B) A - III, B - IV, C - I, D - II
(C) A - I, B - II, C - III, D - IV
(D) A - IV, B - III, C - II, D - I

Answer: (A) A - III, B - I, C - IV, D - II · The council's preliminary key

Q33 AP EAPCET 2024 · 22 May · Shift 2 MCQ

Polymers that can be softened on heating and hardened on cooling are called

(A) Thermosetting polymers
(B) Bakelite
(C) Fibres
(D) Thermoplastic polymers

Answer: (D) Thermoplastic polymers · The council's preliminary key

Q34 AP EAPCET 2024 · 21 May · Shift 1 MCQ

The common monomer for both Terylene and glyptal is

EdLoop EAPCET

The common monomer for both Terylene and glyptal is
టెరిలీన్ మరియు గ్లిప్టాల్ రెండిటిలో ఉండే మోనోమర్

Options :

1. 

2. 

3. 

4. 

(A) *see figure*
(B) *see figure*
(C) *see figure*
(D) *see figure*

Answer: (A) · The council's preliminary key

Q35 AP EAPCET 2024 · 21 May · Shift 2 MCQ

The correctly matched set of the following is

(A) Polystyrene – copolymer - thermoplastic
(B) Bakelite – addition polymer - thermosetting
(C) Nylon 6 – Homopolymer - fibre
(D) Buna-N – Homopolymer - elastomer

Answer: (C) Nylon 6 – Homopolymer - fibre · The council's preliminary key

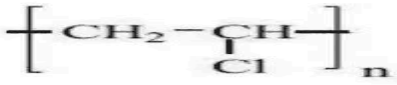
---

Q36 AP EAPCET 2024 · 20 May · Shift 1 MCQ

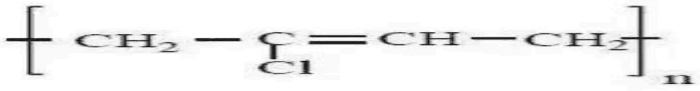
Which of the following is an example for fibre?

Which of the following is an example for fibre?
క్రింది వాటిలో ఏది పోగుకు ఒక ఉదాహరణ?

Options :

1. 

2. 

3. 

4. 

(A) *see figure*
(B) *see figure*
(C) *see figure*
(D) *see figure*

Answer: (D) · The council's preliminary key

Q37 AP EAPCET 2024 · 20 May · Shift 2 MCQ

Which of the following polymerisation leads to the formation of neoprene?

Which of the following polymerisation leads to the formation of neoprene?
క్రింది ఏ పాలిమరీకరణంలో నియోప్రీన్ ఏర్పడుతుంది?

Options :

1. 

2. 

3. 

4. 

(A) see figure
(B) see figure
(C) see figure
(D) see figure

Answer: (C) · The council's preliminary key

Q38 AP EAPCET 2024 · 19 May · Shift 2 MCQ

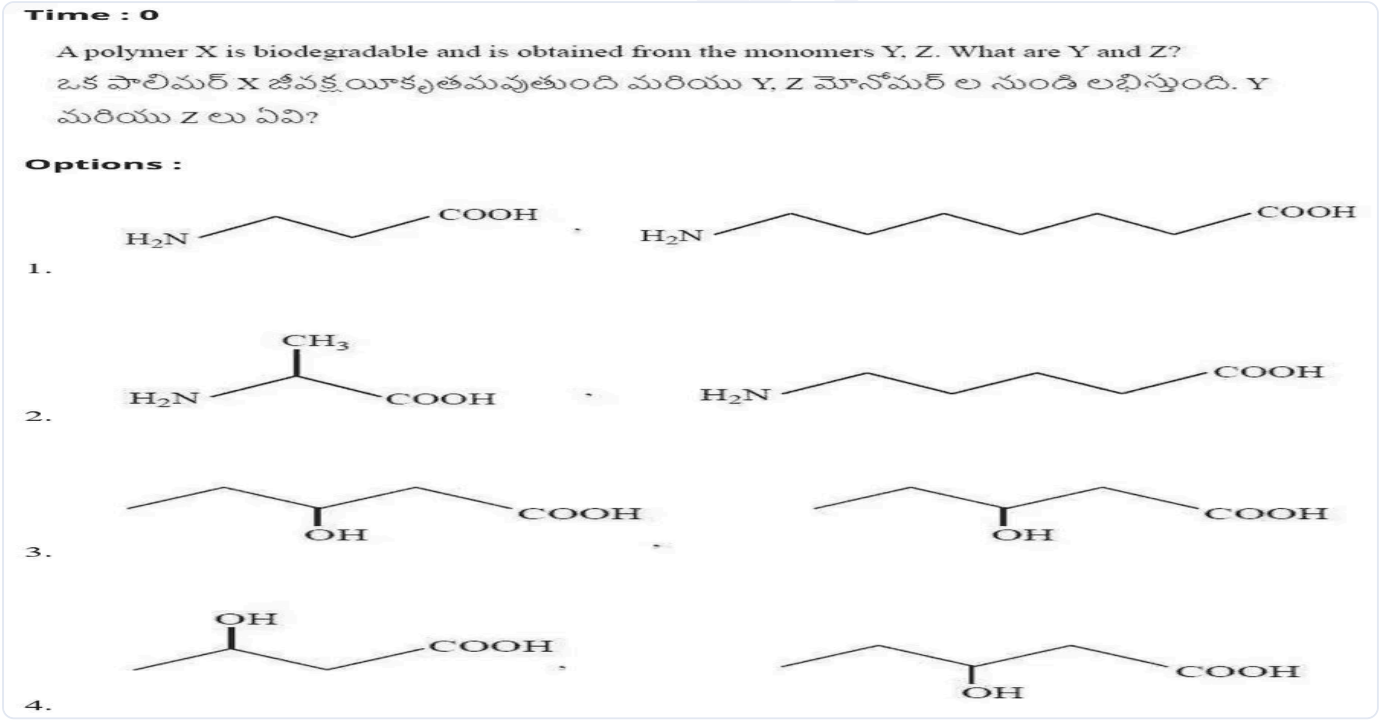
PHBV is a biodegradable polymer of two monomers X and Y. X and Y respectively are

(A) $X = C_2H_5 - CH(OH) - CH_2CO_2H$; $Y = C_2H_5 - CH(OH) - CO_2H$
(B) $X = CH_3 - CH(OH) - CH_2CO_2H$; $Y = C_2H_5 - CH(OH) - CH_2CO_2H$
(C) $X = CH_3 - CH(OH) - CH_2OH$; $Y = C_2H_5 - CH(OH) - CH_2CO_2H$
(D) $X = H_2N - (CH_2)_5 - CO_2H$; $Y = CH_3 - CH(OH) - CH_2CO_2H$

Answer: (B) $X = CH_3 - CH(OH) - CH_2CO_2H$; $Y = C_2H_5 - CH(OH) - CH_2CO_2H$ · The council's preliminary key

Q39 AP EAPCET 2024 · 18 May · Shift 1 MCQ

A polymer X is biodegradable and is obtained from the monomers Y, Z. What are Y and Z?



(A) see figure
(B) see figure
(C) see figure
(D) see figure

Answer: (D) · The council's preliminary key

Q40 TS EAPCET 2024 · 11 May · Shift 1 MCQ

Which one of the following is not an example of condensation polymer?

(A) Terylene
(B) Nylon 6,6
(C) Bakelite
(D) Polystyrene

Answer: (D) Polystyrene · The council's preliminary key

Q41 TS EAPCET 2024 · 10 May · Shift 1 MCQ

Identify the structure of the polymer 'P' formed in the given reaction

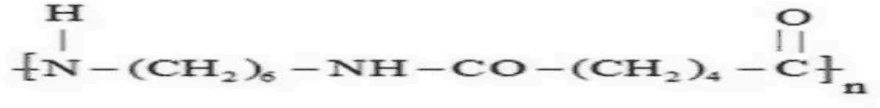
$\text{Caprolactam} \xrightarrow[H_2O]{533\text{-}543\ K} P$

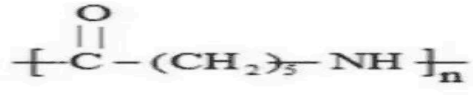
Identify the structure of the polymer 'P' formed in the given reaction
క్రింది చర్యలో ఏర్పడే పాలిమర్ 'P' నిర్మాణం ను గుర్తించుము

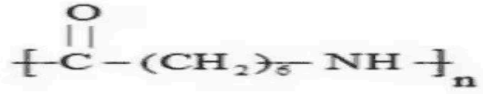
Caprolactam $\xrightarrow[H_2O]{533-543K}$ P
కాప్రోలాక్టమ్

Options :

1. 

2. 

3. 

4. 

(A) *see figure*
(B) *see figure*
(C) *see figure*
(D) *see figure*

Answer: (C) · The council's preliminary key

Q42 TS EAPCET 2024 · 10 May · Shift 2 MCQ

What are 'X' and 'Y' respectively in the following reactions?

(see the figure above)

What are 'X' and 'Y' respectively in the following reactions?
క్రింది చర్యలలో 'X' మరియు 'Y' లు వరుసగా ఏవి ?

Polymer used in making of safety helmets
సురక్షిత హెల్మెట్ల తయారీలో వాడే పాలిమర్



Polymer used in manufacture of paints
పెయింట్ ల తయారీలో వాడే పాలిమర్

Options :

1. 

2. 

3. 

4. 

(A) *see figure*
(B) *see figure*
(C) *see figure*
(D) *see figure*

Answer: (A) · The council's preliminary key

Q43 TS EAPCET 2024 · 9 May · Shift 1 MCQ

Match the following

List – I (Monomer/s)	List – II (Name of the polymer)
A $CF_2 = CF_2$	I Neoprene
B $NH_2(CH_2)_6NH_2,\ HO_2C(CH_2)_4CO_2H$	II Bakelite
C $C_6H_5OH,\ HCHO$	III Teflon
D $CH_2 = CH(Cl) - CH = CH_2$	IV Nylon 6,6

The correct answer is

(A) A – II ; B – III ; C – I ; D – IV
(B) A – III ; B – IV ; C – II ; D – I
(C) A – III ; B – IV ; C – I ; D – II
(D) A – III ; B – I ; C – IV ; D – II

Answer: (B) A – III ; B – IV ; C – II ; D – I · The council's preliminary key

---

Q44 TS EAPCET 2024 · 9 May · Shift 2 MCQ

The monomer which is present in both Bakelite and Melamine polymers is

(A) Methanal
(B) Methanol
(C) Phenol
(D) Ethane-1, 2-diol

Answer: (A) Methanal · The council's preliminary key

Q45 AP EAPCET 2023 · 18 May · Shift 1 MCQ

Identify the correct statement from the following with respect to high density polythene

(A) $TiCl_4$ and Et_3Al used as catalyst for preparation
(B) Obtained by the polymerization of ethene at 350-570K
(C) Has highly branched structure
(D) Chemically active

Answer: (A) $TiCl_4$ and Et_3Al used as catalyst for preparation · The council's preliminary key

Q46 AP EAPCET 2023 · 18 May · Shift 2 MCQ

Zinc acetate – antimony trioxide catalyst used in the preparation of which polymer?

(A) High density polythene
(B) Teflon
(C) Terylene
(D) PVC

Answer: (C) Terylene · The council's preliminary key

Q47 AP EAPCET 2023 · 17 May · Shift 1 MCQ

Which of the following polymer is used in the preparation of gaskets?

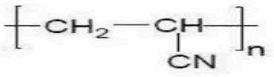
EdLoop EAPCET

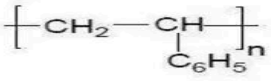
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instructi
Time : 0

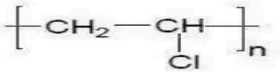
Which of the following polymer is used in the preparation of gaskets?

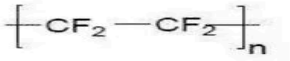
క్రింది ఏ పాలిమర్ ను గాస్కెట్ ల తయారీలో వాడుతారు?

Options :

1. 

2. 

3. 

4. 

(A) *see figure*

(B) *see figure*

(C) *see figure*

(D) *see figure*

Answer: (D) · The council's preliminary key

Q48 AP EAPCET 2023 · 17 May · Shift 2 MCQ

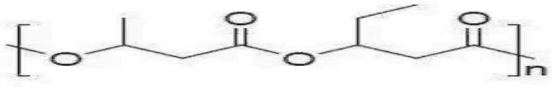
Which of the polymer is used in the controlled release of drug?

Which of the polymer is used in the controlled release of drug?

క్రింది ఏ పాలిమర్ ను నియంత్రిత ఔషధ విడుదలలో వాడుతారు?

Options :

1. 

2. 

3. 

4. 

(A) *see figure*
(B) *see figure*
(C) *see figure*
(D) *see figure*

Answer: (B) · The council's preliminary key

Q49 AP EAPCET 2023 · 16 May · Shift 1 MCQ

Identify the condensation polymers from the following

PHBV, Buna – N, Neoprene, Nylon-6, Glyptal

A, B, C, D, E (labels printed beneath the polymers in that order)

(A) A, B, D
(B) B, C, D
(C) B, C, E
(D) A, D, E

Answer: (D) A, D, E · The council's preliminary key

Q50 AP EAPCET 2023 · 16 May · Shift 2 MCQ

Poly dispersity index of a polymer is 1.25. If $\overline{M}_n$ is 800, what is its $\overline{M}_w$?

(A) 850
(B) 900
(C) 950
(D) 1000

Answer: (D) 1000 · The council's preliminary key

Q51 AP EAPCET 2023 · 15 May · Shift 1 MCQ

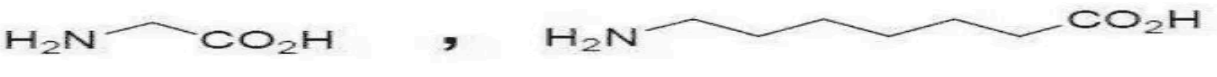
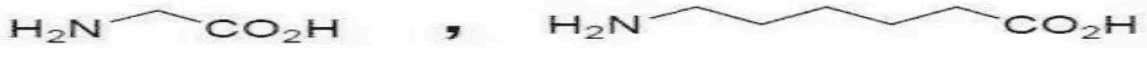
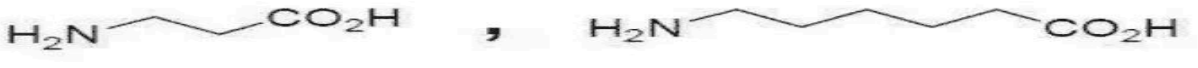
Monomers of nylon 2-nylon 6 are

EdLoop EAPCET

Monomers of nylon 2-nylon 6 are

నైలాన్ 2- నైలాన్ 6 మోనోమర్ లు

Options :

1. 
2. 
3. 
4. 

(A) *see figure*

(B) *see figure*

(C) *see figure*

(D) *see figure*

Answer: (C) · The council's preliminary key

Q52 AP EAPCET 2023 · 15 May · Shift 2 MCQ

In which of the following pairs the polymer is correctly matched with the forces possessed by them.

A. Neoprene ---- Weak intermolecular forces

B. Terylene ---- Hydrogen bonding

C. Polystyrene ---- Very weak intermolecular forces

D. Polythene ---- Hydrogen bonding

(A) B,C

(B) C, D

(C) A, B

(D) A,D

Answer: (C) A, B · The council's preliminary key

Q53 TS EAMCET 2023 · 14 May · Shift 1 MCQ

Ziegler-Natta Catalyst is used in the manufacture of

(A) Polyacrylonitrile
(B) Terylene
(C) High density polythene
(D) Low density polythene

Answer: (C) High density polythene · The council's preliminary key

Q54 TS EAMCET 2023 · 14 May · Shift 2 MCQ

Match the following

List – I (Polymer Type)	List – II (Example)
A) Fibre	I) Bakelite
B) Elastomer	II) Polystyrene
C) Thermosetting polymer	III) Neoprene
D) Thermoplastic polymer	IV) Dacron

The correct answer is

(A) A – III, B – IV, C – I, D – II
(B) A – IV, B – III, C – I, D – II
(C) A – II, B – I, C – IV, D – III
(D) A – IV, B – I, C – II, D – III

Answer: (B) A – IV, B – III, C – I, D – II · The council's preliminary key

Q55 TS EAMCET 2023 · 13 May · Shift 1 MCQ

A polymer sample contains 3 molecules of molar mass 10^3, 3 molecules of molar mass 500 and 4 molecules of molar mass 200. What is its weight average molecular mass?

(A) 530
(B) 737.7
(C) 834.4
(D) 821.6

Answer: (B) 737.7 · The council's preliminary key

Q56 TS EAMCET 2023 · 13 May · Shift 2 MCQ

Identify the correct statement from the following

(A) Glyptal is made from the monomers ethylene glycol and phthalic acid

(B) Bakelite is used in making electrical switches

(C) Nylon2-nylon6 is a biodegradable polymer

EdLoop EAPCET

(A) A, B, C
(B) A &C only
(C) A & B only
(D) B & C only

Answer: (A) A, B, C · The council's preliminary key

Q57 TS EAMCET 2023 · 12 May · Shift 1 MCQ

Amongst the following, how many of them come under the category of elastomers?

Natural rubber, polyethene, vulcanized rubber, bakelite, polyvinylchloride, Buna-N, Nylon 6, Neoprene

(A) 4
(B) 5
(C) 3
(D) 6

Answer: (A) 4 · The council's preliminary key

Q58 TS EAMCET 2023 · 12 May · Shift 2 MCQ

Match the following

List-I (polymer)	List-II (Monomer/s)
A) Bakelite	I) 2-Methyl-1,3-butadiene
B) Natural rubber	II) Glycine + Aminocaproic acid
C) Glyptal	III) Phenol+formaldehyde
D) Nylon 2-Nylon 6	IV) Phthalic acid+ethylene glycol

The correct answer is

(A) A - IV, B - I, C - II, D – III
(B) A - III B - I, C - IV, D – II
(C) A - III, B - II, C - IV, D – I
(D) A – II, B - III, C - I, D – IV

Answer: (B) A - III B - I, C - IV, D – II · The council's preliminary key

Q59 AP EAMCET 2020 · 7 Oct · Shift 1 MCQ

Which of the following can be used as a chain transfer agent during vinyl polymerization?

EdLoop EAPCET

(A) CCl_4
(B) C_6H_5OH
(C) t- butylperoxide
(D) Diphenylamine

Answer: (A) CCl_4 · The council's preliminary key

Q60 AP EAMCET 2020 · 7 Oct · Shift 1 MCQ

Teflon is an example of _____

(A) Formaldehyde resin
(B) Polyamide
(C) Polyester
(D) Addition polymer

Answer: (D) Addition polymer · The council's preliminary key

Q61 AP EAMCET 2020 · 22 Sep · Shift 1 MCQ

Which of the following polymer is bio-degradable?

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

Answer: (B) Nylon-2-nylon-6 · The council's preliminary key

Q62 AP EAMCET 2020 · 22 Sep · Shift 1 MCQ

Which of among the following is an example for fibre?

(A) Polyester
(B) Urea-formaldehyde resin
(C) Polyvinyl chloride
(D) Neoprene

Answer: (A) Polyester · The council's preliminary key

Q63 AP EAMCET 2020 · 22 Sep · Shift 2 MCQ

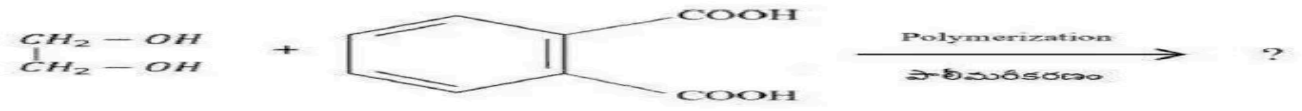
Find the product in the reaction given below
(see the figure above)

EdLoop EAPCET

Orientation : Vertical

Find the product in the reaction given below

క్రింది చర్యలో ఉత్పన్నము ఏమిటి?



Options :

1. Rayon
రేయాన్

2. Buna-S
బ్యూనా-S

3. Glyptal
గ్లిప్తాల్

4. Neoprene
నియోప్రీన్

AP EAMCET 2020
AP EAMCET 2020

(A) Rayon
(B) Buna-S
(C) Glyptal
(D) Neoprene

Answer: (C) Glyptal · The council's preliminary key

Q64 AP EAMCET 2020 · 21 Sep · Shift 1 MCQ

Which of the following is an example for Chain-Growth polymer?

(A) Bakelite
(B) Teflon
(C) Nylon
(D) Terylene

Answer: (B) Teflon · The council's preliminary key

Q65 AP EAMCET 2020 · 21 Sep · Shift 1 MCQ

Which among the following polymers can be formed by using caprolactam monomer unit?

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

Answer: (D) Nylon-6 · The council's preliminary key

Q66 AP EAMCET 2020 · 18 Sep · Shift 1 MCQ

Intermolecular forces in nylon-6,6 are

(A) Dipole - dipole interactions
(B) Hydrogen Bonding
(C) Vander Waal's forces
(D) Ionic bonds

Answer: (B) Hydrogen Bonding · The council's preliminary key

Q67 AP EAMCET 2020 · 18 Sep · Shift 1 MCQ

Which of the following is not a semisynthetic polymer?

(A) cis-poly isoprene
(B) Cellulose nitrate
(C) Cellulose acetate
(D) Vulcanized rubber.

Answer: (A) cis-poly isoprene · The council's preliminary key

Q68 AP EAMCET 2020 · 18 Sep · Shift 2 MCQ

Which of the following is a biodegradable polymer of polyamide class?

(A) Dextron
(B) Nylon-2-nylon-6
(C) Nylon-6, 6
(D) PHBV

Answer: (B) Nylon-2-nylon-6 · The council's preliminary key

Q69 AP EAMCET 2020 · 17 Sep · Shift 1 MCQ

Which among the following polymers exhibit hydrogen bonding?

(A) Polyvinyl chloride
(B) Nylon-6, 6
(C) Neoprene
(D) Teflon

Answer: (B) Nylon-6, 6 · The council's preliminary key

Q70 TS EAMCET 2020 · 14 Sep · Shift 1 MCQ

Which one among the following is a semi-synthetic polymer?

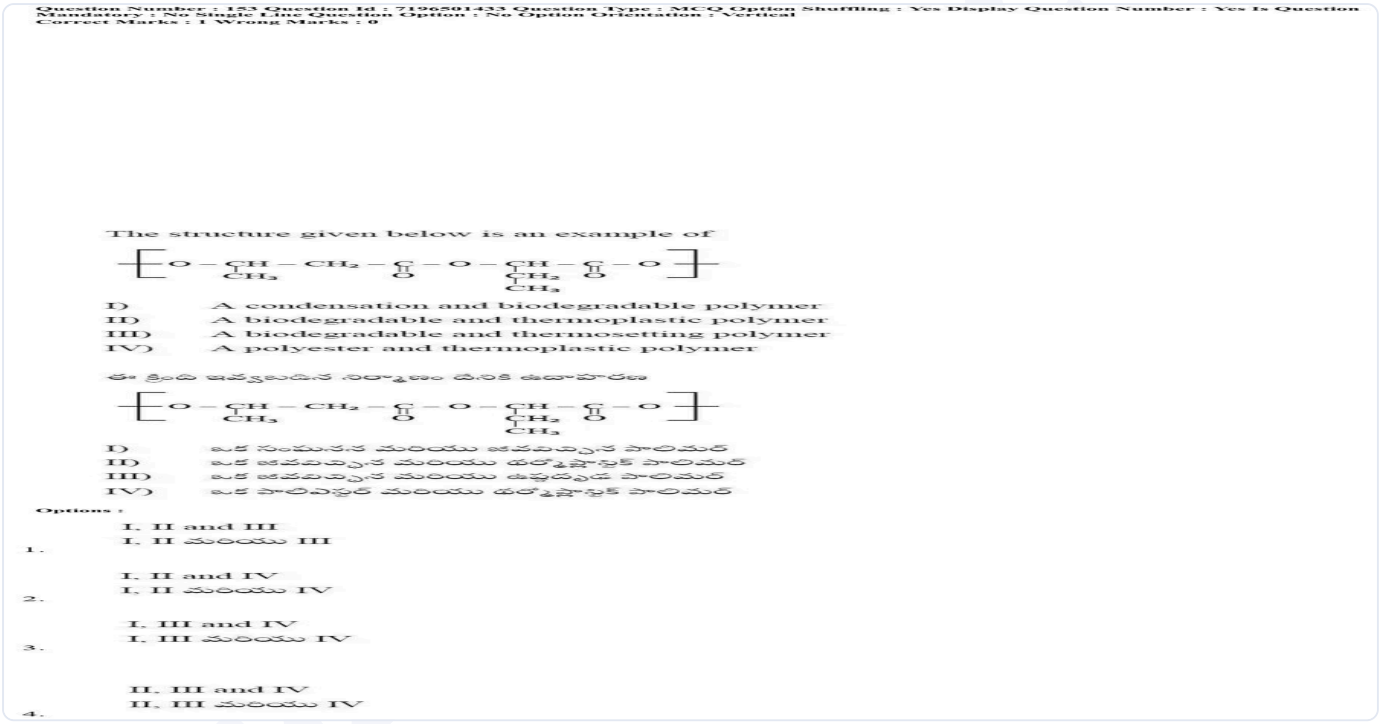
EdLoop EAPCET

(A) Cellulose acetate
(B) Starch
(C) Rubber
(D) Nylon 6, 6

Answer: (A) Cellulose acetate · Official TGCHE final key

Q71 TS EAMCET 2020 · 14 Sep · Shift 2 MCQ

The structure given below is an example of
(see the figure above)
I) A condensation and biodegradable polymer
II) A biodegradable and thermoplastic polymer
III) A biodegradable and thermosetting polymer
IV) A polyester and thermoplastic polymer



(A) I, II and III
(B) I, II and IV
(C) I, III and IV
(D) II, III and IV

Answer: (B) I, II and IV · Official TGCHE final key

Q72 TS EAMCET 2020 · 11 Sep · Shift 1 MCQ

Type of reaction involved in the initial step in the formation of Bakelite

(A) Electrophilic substitution
(B) Electrophilic addition
(C) Nucleophilic substitution
(D) Nucleophilic addition

Answer: (A) Electrophilic substitution · Official TGCHE final key

Q73 TS EAMCET 2020 · 11 Sep · Shift 2 MCQ

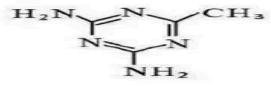
Monomeric units of melamine polymer are:

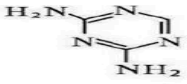
Question Number : 153 Question Id : 7196501113 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

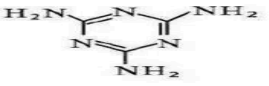
Monomeric units of melamine polymer are:

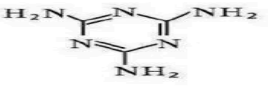
మెలమైన్ పాలిమర్ యొక్క మోనోమర్‌లు ఏవి?

Options :

1.  and మరియు CH_2O

2.  and మరియు CH_3OH

3.  and మరియు CH_2O

4.  and మరియు CH_2Cl_2

(A) *see figure*
(B) *see figure*
(C) *see figure*
(D) *see figure*

Answer: (C) · Official TGCHE final key

Q74 TS EAMCET 2020 · 10 Sep · Shift 1 MCQ

Which of the following vinyl derivatives is the most reactive towards anionic polymerisation?

(A) $CH_2=CH-CH_2-CH_3$
(B) $CH_2=CH-CH_2-OE$ (sic)
(C) $CH_2=CH-Cl$
(D) $CH_2=CH-C\equiv N$

Answer: (D) $CH_2=CH-C\equiv N$ · Official TGCHE final key

Q75 TS EAMCET 2020 · 10 Sep · Shift 2 MCQ

Which of the following are synthetic rubbers?
(i) Terylene
(ii) Buna–S
(iii) Buna–N
(iv) Neoprene
(v) Polyacrylonitrile

(A) (i), (ii) and (iii)
(B) (ii), (iv) and (v)
(C) (ii), (iii) and (iv)
(D) (i), (ii) and (iv)

Answer: (C) (ii), (iii) and (iv) · Official TGCHE final key

Q76 TS EAMCET 2020 · 9 Sep · Shift 1 MCQ

Which one of the following is made by using step growth polymerization?

(A) Nylon 6, 6
(B) Teflon
(C) Rubber
(D) Neoprene

Answer: (A) Nylon 6, 6 · Official TGCHE final key

Q77 TS EAMCET 2020 · 9 Sep · Shift 2 MCQ

Match the following
A) Natural rubber
B) PVC
C) Terylene
D) Syndiotactic polymer
I) Free radical polymerization
II) Side chain alternative arrangement
III) cis-Polyisoprene
IV) Condensation polymerization
The correct match is

(A) A-I, B-II, C-III, D-IV
(B) A-III, B-II, C-IV, D-I
(C) A-III, B-I, C-IV, D-II
(D) A-IV, B-II, C-I, D-III

Answer: (C) A-III, B-I, C-IV, D-II · Official TGCHE final key

EdLoop EAPCET

Q78 TS EAMCET 2019 · 6 May · Shift 1 MCQ

Which of the following polymer is formed due to the copolymerisation of 1, 3-butadiene and phenylethene?

(A) Buna-N
(B) Neoprene
(C) Novolac
(D) Buna-S

Answer: (D) Buna-S · Official TGCHE final key

Q79 TS EAMCET 2019 · 4 May · Shift 1 MCQ

Match the following.
List - I
A) $[-CH_2-C(Cl)=CH-CH_2-]_n$
B) Nylon 6, 6
C) HDP
D) Melamine-formaldehyde
List - II
I) Cross-linked network
II) Elastomer
III) Fibre
IV) Ziegler-Natta Catalyst
The correct answer is

(A) A-IV, B-III, C-II, D-I
(B) A-II, B-III, C-IV, D-I
(C) A-III, B-II, C-I, D-IV
(D) A-I, B-IV, C-III, D-II

Answer: (B) A-II, B-III, C-IV, D-I · Official TGCHE final key

Q80 TS EAMCET 2019 · 4 May · Shift 2 MCQ

The monomer units of Nylon 6,6, Nylon 2-Nylon 6 are respectively,

(A) $H_2NCH_2CO_2H$, $H_2N(CH_2)_6NH_2$; $HO_2C(CH_2)_4CO_2H$, $H_2NCH_2CO_2H$
(B) $H_2NCH_2CO_2H$, $HO_2C(CH_2)_4CO_2H$; $H_2N(CH_2)_6NH_2$, $H_2N(CH_2)_5CO_2H$
(C) $H_2N(CH_2)_6NH_2$, $HO_2C(CH_2)_4CO_2H$; $H_2NCH_2CO_2H$, $H_2N(CH_2)_5CO_2H$
(D) $H_2NCH_2CO_2H$, $H_2N(CH_2)_5CO_2H$; $H_2N(CH_2)_6NH_2$, $HO_2C(CH_2)_4CO_2H$

Answer: (C) $H_2N(CH_2)_6NH_2$, $HO_2C(CH_2)_4CO_2H$; $H_2NCH_2CO_2H$, $H_2N(CH_2)_5CO_2H$ · Official TGCHE final key

EdLoop EAPCET

Q81 TS EAMCET 2019 · 3 May · Shift 1 MCQ

A polymer contains 50 molecules with molecular mass 5000, 100 molecules with molecular mass 10,000 and 50 molecules with molecular mass 15,000. Calculate number average molecular mass?

(A) 5,000
(B) 75,000
(C) 10,000
(D) 20,000

Answer: (C) 10,000 · Official TGCHE final key

Q82 TS EAMCET 2019 · 3 May · Shift 2 MCQ

Which one of the following is a biodegradable polymer?
(see the figure above)

Question Number : 153 Question Id : 7512364473 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

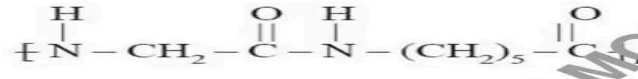
Which one of the following is a biodegradable polymer?

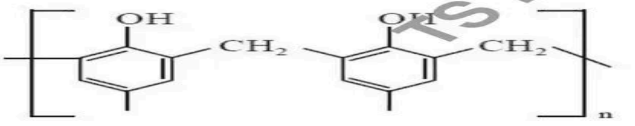
క్రింది వాటిలో జీవక్షయీకృత పాలిమర్ ఏది?

Options :

1. 

2. 

3. 

4. 

(A) *see figure*
(B) *see figure*
(C) *see figure*
(D) *see figure*

Answer: (C) · Official TGCHE final key

Q83 AP EAMCET 2019 · 23 Apr · Shift 1 MCQ

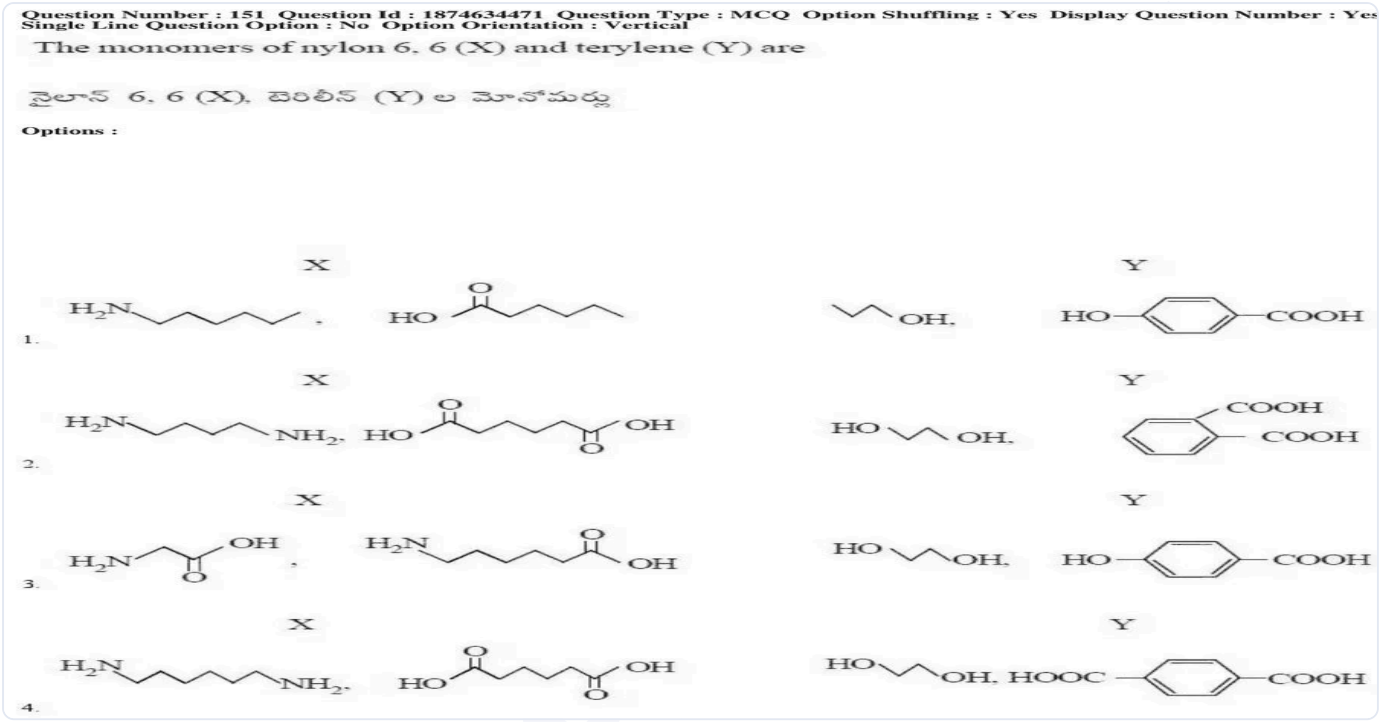
Number average molecular mass of a polymer that contains 15 molecules with each of mass 8,000 and 15 molecules with each of mass 80,000 is

(A) 22,000
(B) 33,000
(C) 11,000
(D) 44,000

Answer: (D) 44,000 · Official APSCHE final key

Q84 AP EAMCET 2019 · 22 Apr · Shift 1 MCQ

The monomers of nylon 6, 6 (X) and terylene (Y) are



(A) *see figure*
(B) *see figure*
(C) *see figure*
(D) *see figure*

Answer: (D) · Official APSCHE final key

Q85 AP EAMCET 2019 · 22 Apr · Shift 2 MCQ

The catalyst triethyl aluminium and titanium tetrachloride finds use in the formation of the polymer

(A) Teflon
(B) Low density polythene
(C) Polyacrylonitrile
(D) High density polythene

Answer: (D) High density polythene · Official APSCHE final key

Q86 AP EAMCET 2019 · 21 Apr · Shift 1 MCQ

How many of the following polymers given, come under the category of condensation polymers Bakelite, Teflon, Nylon 6, Dacron, Polyisoprene, Melamine, Neoprene

(A) 4
(B) 3
(C) 5
(D) 6

Answer: (A) 4 · Official APSCHE final key

Q87 AP EAMCET 2019 · 21 Apr · Shift 2 MCQ

Match the following.
List - I
A) Addition polymer
B) Condensation polymer
C) Acrilan
D) Rubber
List - II
I) Bakelite
II) 2-methyl-1, 3-butadiene
III) 2, 3-dimethyl-1, 3-butadiene
IV) Vinyl cyanide
V) Polythene
The correct answer is

(A) A-V, B-I, C-IV, D-II
(B) A-V, B-I, C-II, D-III
(C) A-I, B-V, C-IV, D-II
(D) A-I, B-V, C-II, D-III

Answer: (A) A-V, B-I, C-IV, D-II · Official APSCHE final key

Q88 AP EAMCET 2019 · 20 Apr · Shift 1 MCQ

Match the following.
List - I
A) Teflon
B) Anionic polymerisation
C) Cationic polymerisation
D) Thermosetting polymer
List - II
I) $SnCl_2$
II) C_2F_4

EdLoop EAPCET

III) Bakelite
IV) Polystyrene
V) RLi
The correct answer is

(A) A-II, B-I, C-V, D-III
(B) A-II, B-V, C-I, D-IV
(C) A-II, B-V, C-I, D-III
(D) A-V, B-II, C-I, D-IV

Answer: (C) A-II, B-V, C-I, D-III · Official APSCHE final key

Q89 AP EAMCET 2019 · 20 Apr · Shift 2 MCQ

Match the following
List - I
A) $[-NH-(CH_2)_6-NH-CO-(CH_2)_4-CO-]_n$
B) $[-CO-(CH_2)_5-NH-]_n$
C) $[-CF_2-CF_2-]_n$
D) $[-O-CH_2-CH_2-OOC-C_6H_4-CO-]_n$ (para-phenylene ring drawn)
List - II
I) Ethylene glycol and Terephthalic acid
II) Phenol and formaldehyde
III) Caprolactam
IV) Hexamethylene diamine and adipic acid
V) Tetrafluoroethene

(A) A-IV, B-III, C-V, D-I
(B) A-III, B-II, C-IV, D-I
(C) A-IV, B-III, C-II, D-I
(D) A-II, B-IV, C-III, D-V

Answer: (A) A-IV, B-III, C-V, D-I · Official APSCHE final key

Q90 TS EAMCET 2018 · 7 May · Shift 1 MCQ

Examples for natural polymers are

(A) Cotton, Silk, Bakelite and Wool
(B) Cellulose, Polystyrene and Neoprene
(C) Nylon, Terylene and PVC
(D) Silk, Cotton and Proteins

Answer: (D) Silk, Cotton and Proteins · The council's preliminary key

EdLoop EAPCET

Q91 TS EAMCET 2018 · 5 May · Shift 1 MCQ

Match the following

List - I

a) Natural rubber

b) Cellulose

c) Nylon-6

d) Teflon

List - II

i) β-Glucose

ii) Isoprene

iii) Tetrafluoroethylene

iv) Caprolactam

v) Hexamethylenediamine, adipic acid

The correct answer is

(A) (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)

(B) (a)-(ii), (b)-(iv), (c)-(i), (d)-(iii)

(C) (a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)

(D) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(v)

Answer: (A) (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii) · The council's preliminary key

Q92 TS EAMCET 2018 · 5 May · Shift 2 MCQ

The schematic illustrations of macromolecules given below represent

(see the figure above)



(A) A: HDPE, B: LDPE, C: Bakelite
(B) A: Bakelite, B: HDPE, C: LDPE
(C) A: HDPE, B: Bakelite, C: LDPE
(D) A: LDPE, B: Bakelite, C: HDPE

Answer: (B) A: Bakelite, B: HDPE, C: LDPE · The council's preliminary key

Q93 TS EAMCET 2018 · 4 May · Shift 1 MCQ

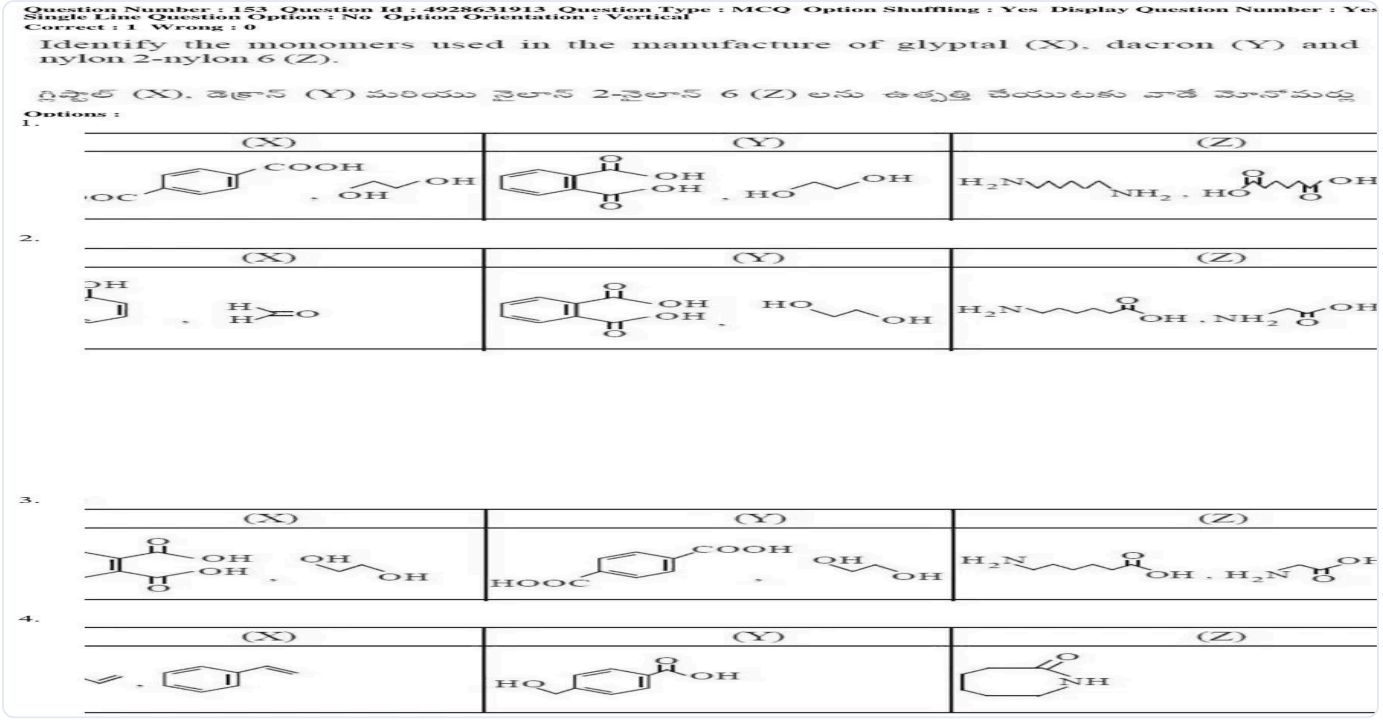
The formation of terylene (or decron) from ethylene glycol and terephthalic acid is

(A) a condensation polymerization reaction
(B) an anionic polymerization reaction
(C) an addition polymerization reaction
(D) a cationic polymerization reaction

Answer: (A) a condensation polymerization reaction · The council's preliminary key

Q94 TS EAMCET 2018 · 4 May · Shift 2 MCQ

Identify the monomers used in the manufacture of glyptal (X), dacron (Y) and nylon 2-nylon 6 (Z).
(see the figure above)



(A) *see figure*
(B) *see figure*
(C) *see figure*
(D) *see figure*

Answer: (C) · The council's preliminary key

Q95 AP EAMCET 2018 · 24 Apr · Shift 1 MCQ

Examples of synthetic polymer (X) and semi-synthetic polymer (Y) are

(A) X = polythene, Y = rayon
(B) X = rayon, Y = nylon 6, 6
(C) X = rubber, Y = polythene
(D) X = cellulose nitrate, Y = PVC

Answer: (A) X = polythene, Y = rayon · The council's preliminary key

Q96 AP EAMCET 2018 · 24 Apr · Shift 2 MCQ

Examples of thermoplastic polymer (X) and thermosetting polymer (Y) are

(A) X: teflon; Y: neoprene
(B) X: neoprene; Y: glyptal
(C) X: polystyrene; Y: bakelite
(D) X: bakelite; Y: polythene

Answer: (C) X: polystyrene; Y: bakelite · The council's preliminary key

Q97 AP EAMCET 2018 · 23 Apr · Shift 1 MCQ

Which one of the following structures represents the neoprene rubber?

Question Number : 151 Question Id : 4557344151 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following structures represents the neoprene rubber?

క్రింది నిర్మాణాలలో ఏది నియోప్రీన్ రబ్బర్‌ను వ్యక్తం చేయును?

Options :

1. $+CH_2-C(Cl)=CH-CH_2+_n$

2. $+CH_2-CH=CH-CH_2-CH_2-CH(CN)+_n$

3. $+NH-CO-NH-CH_2+_n$

4. $+OCH_2-CH_2OOC$  $CO+_n$

(A) $-[CH_2-C(Cl)=CH-CH_2]_n-$

(B) $-[CH_2-CH=CH-CH_2-CH_2-CH(CN)]_n-$

(C) $-[NH-CO-NH-CH_2]_n-$

(D) *see figure*

Answer: (A) $-[CH_2-C(Cl)=CH-CH_2]_n-$ · The council's preliminary key

Q98 AP EAMCET 2018 · 23 Apr · Shift 2 MCQ

Nylon 6, 6 is a condensation polymer of two monomers X and Y. The number of $-CH_2-$ groups in X and Y are respectively

(A) 6, 4

(B) 6, 6

(C) 5, 6

(D) 6, 2

Answer: (A) 6, 4 · The council's preliminary key

Q99 AP EAMCET 2018 · 22 Apr · Shift 1 MCQ

In anionic polymerisation, the compound which acts as effective chain initiator is

(A) BF_3

(B) $(CH_3CO)_2O_2$

(C) $SnCl_2$

(D) R-Li

Answer: (D) R-Li · The council's preliminary key

Q100 AP EAMCET 2018 · 22 Apr · Shift 2 MCQ

Catalyst used in the manufacture of high density polythene is

(A) MnO_2

(B) V_2O_5

(C) $TiCl_4$ & $(C_2H_5)_3Al$

(D) $PdCl_2$

Answer: (C) $TiCl_4$ & $(C_2H_5)_3Al$ · The council's preliminary key

Q101 AP EAMCET 2018 · 22 Apr · Shift 2 MCQ

The polydispersity index of a polymer containing 10 molecules with molecular mass 1.0×10^4 and 10 molecules with molecular mass 1.0×10^5 is approximately

EdLoop EAPCET

(A) 1.67
(B) 0.59
(C) 1.55
(D) 0.83

Answer: (A) 1.67 · The council's preliminary key

Q102 TS EAMCET 2017 · 12 May · Offline MCQ

The monomers of Buna-S rubber are

(A) Isoprene and butadiene
(B) Butadiene and phenol
(C) Styrene and butadiene
(D) Vinyl chloride and sulphur

Answer: (C) Styrene and butadiene · The council's preliminary key

Q103 AP EAMCET 2017 · 26 Apr · Shift 1 MCQ

Which one of the following is not used as an initiator in ionic polymerisation?

(A) $AlCl_3$
(B) $SnCl_2$
(C) $NaNH_2$
(D) $(C_6H_5CO)_2O_2$

Answer: (D) $(C_6H_5CO)_2O_2$ · The council's preliminary key

Q104 AP EAMCET 2017 · 26 Apr · Shift 2 MCQ

Which of the following statements are correct ?
a. Natural rubber becomes hard at high temperature
b. Neoprene is a polymer of 2-chloro -1, 3-butadiene
c. Nylon 6, 6 is a polyamide fibre
d. Buna-S is an example of a homopolymer

(A) b, c
(B) a, c, d
(C) b, d
(D) a, c

Answer: (A) b, c · The council's preliminary key

Q105 AP EAMCET 2017 · 25 Apr · Shift 1 MCQ

Identify the set with only addition homopolymers.

(A) Polythene, Natural rubber, Cellulose
(B) Starch, Nylon, Terylene
(C) Teflon, Bakelite, Orlon
(D) Neoprene, PVC, Polythene

Answer: (D) Neoprene, PVC, Polythene · The council's preliminary key

Q106 AP EAMCET 2017 · 25 Apr · Shift 2 MCQ

Identify the monomer that can undergo polymerisation by free radical, cationic and anionic mechanisms.

(A) Vinyl chloride
(B) Acrylonitrile
(C) Styrene
(D) Isobutylene

Answer: (C) Styrene · The council's preliminary key

Q107 AP EAMCET 2017 · 24 Apr · Shift 1 MCQ

Ethylene on reaction with Baeyer's reagent gives the compound A. In the preparation of co-polymer X, compound A is used as monomer. What is X?

(A) Nylon 6, 6
(B) Bakelite
(C) Glyptal
(D) Nylon 2 - Nylon 6

Answer: (C) Glyptal · The council's preliminary key

Q108 AP EAMCET 2017 · 24 Apr · Shift 1 MCQ

Buna - N is a co-polymer of 1, 3-Butadiene and X. What is X?

(A) $CH_2=CH-CN$
(B) $CH_2=CH-Cl$
(C) $CH_2=CH-C_6H_5$
(D) $CH_2=CH-CH_3$

Answer: (A) $CH_2=CH-CN$ · The council's preliminary key

Q109 AP EAMCET 2017 · 24 Apr · Shift 2 MCQ

Identify the fibre (X) and elastomer (Y) from the following

(A) X: Dacron, Y: Neoprene
(B) X: Novolac, Y: Polystyrene
(C) X: Teflon, Y: Buna - S
(D) X: Glyptal, Y: Polypropene

Answer: (A) X: Dacron, Y: Neoprene · The council's preliminary key

Q110 TS EAMCET 2016 · 15 May · Offline MCQ

The P Dispersity Index (PDI) of a polymer is ($\overline{M}_w$ = weight average molecular mass and $\overline{M}_n$ = number average molecular mass)

(A) The product of $\overline{M}_n$ and $\overline{M}_w$
(B) The sum of $\overline{M}_n$ and $\overline{M}_w$
(C) The difference between $\overline{M}_w$ and $\overline{M}_n$
(D) The ratio between $\overline{M}_w$ and $\overline{M}_n$

Answer: (D) The ratio between $\overline{M}_w$ and $\overline{M}_n$ · Official TGCHE final key

Q111 AP EAMCET 2016 · 29 Apr · Offline MCQ

Observe the following polymers
A) PHBV
B) Nylon 2-nylon 6
C) Glyptal
D) Bakelite
Biodegradable polymer(s) from the above is/are

(A) (C)
(B) (A), (B)
(C) (D)
(D) (C), (D)

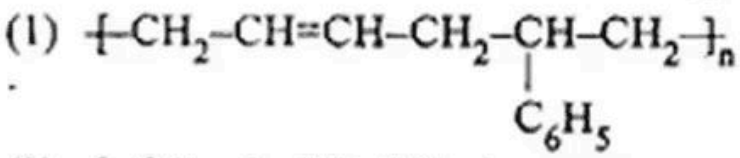
Answer: (B) (A), (B) · The council's preliminary key

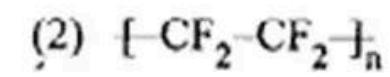
Q112 AP EAMCET 2014 · 22 May · Offline MCQ

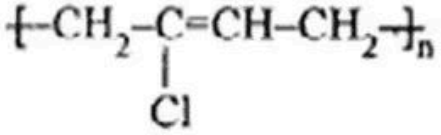
Identify the copolymer from the following :
(see the figure above)

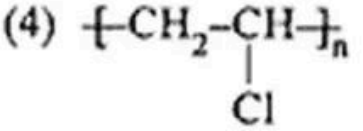
128. Identify the copolymer from the following :

క్రిందివాటి నుండి కోపాలిమర్‌ను గుర్తింపుము :

(1) 

(2) 

(3) 

(4) 

(A) *see figure*

(B) *see figure*

(C) *see figure*

(D) *see figure*

Answer: (A) · The council's preliminary key

Q113 AP EAMCET 2013 · 10 May · Offline MCQ

Example of a biodegradable polymer pair is :

(A) Nylon-6,6 and Terylene

(B) PHBV and Dextron

(C) Bakelite and PVC

(D) PET and Polyethylene

Answer: (B) PHBV and Dextron · The council's preliminary key

Q114 AP EAMCET 2012 · 12 May · Offline MCQ

The monomer of neoprene is

(A) 1, 3-Butadiene

(B) 2-Chloro-1, 3-butadiene

(C) 2-Methyl-1, 3-butadiene

(D) Vinyl chloride

Answer: (B) 2-Chloro-1, 3-butadiene · Official APSCHE final key

Q115 AP EAMCET 2010 · 30 May · Offline MCQ

If the number average molecular weight and weight average molecular weight of a polymer are 40,000 and 60,000 respectively, the polydispersity index of the polymer will be :

(A) > 1

(B) < 1

(C) 1

(D) Zero

Answer: (A) > 1 · Official APSCHE final key

EdLoop EAPCET