

## Polymers

## JEE Main 2020 Chapterwise

### Questions with Answer Keys

### Chemistry

#### Q1 JEE Main 2020 - 9 January (Evening)

Which polymer has chiral monomer(s)?

- (A) Buna-*N*
- (B) PHBV
- (C) Neoprene
- (D) Nylon 6, 6

#### Q2 JEE Main 2020 - 5 September (Evening)

Which one of the following polymers is not obtained by condensation polymerisation?

- (A) Buna-N
- (B) Nylon 6
- (C) Bakelite
- (D) Nylon 6,6

#### Q3 JEE Main 2020 - 6 September (Morning)

Consider the Assertion and Reason given below.

Assertion (A) : Ethene polymerized in the presence of Ziegler Natta Catalyst at high temperature and pressure is used to make buckets and dustbins.

Reason (R) : High density polymers are closely packed and are chemically inert.

Choose the correct answer from the following:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is not the correct explanation of (A).
- (C) (A) is correct but (R) is wrong
- (D) (A) and (R) both are wrong

#### Q4 JEE Main 2020 - 6 September (Evening)

The correct match between Item - I and Item - II is

**Item - I****(a) Natural rubber****(b) Neoprene****(c) Buna-N****(d) Buna-S****Item - II****(I) 1, 3-butadiene  
+ styrene****(II) 1, 3-butadiene  
+ acrylonitrile****(III) Chloroprene****(IV) Isoprene**

(A) (a) – (111), (b) – (IV), (c) – (1), (d) – (11)

(B) (a) – (IV), (b) – (III), (c) – (II), (d) – (1)

(C) (a) – (III), (b) – (IV), (c) – (II), (d) – (1)

(D) (a) – (IV), (b) – (III), (c) – (I), (d) – (II)

**Q5 JEE Main 2020 - 8 January (Evening)**

Preparation of Bakelite proceeds via reactions :

(A) Electrophilic substitution followed by condensation.

(B) Nucleophilic addition followed by dehydration.

(C) Electrophilic addition followed by dehydration.

(D) Hydration followed by condensation.

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### Chemistry

## Answer Key

Q1 (B)

Q2 (A)

Q3 (A)

Q4 (B)

Q5 (A)

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