

By. Er. Dharmendra Sir

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DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

TEST - PAPER (CBSE/NCERT)

POLYMERS

SESSION -2024-25

CLASS - 12th

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Time : 1 hr

Polymers

mm : 40

Q. 1. Which of the following polymers, need at least one diene monomer for their preparation? (Also explain)

(a) Dacron

(b) Buna-S

(c) Neoprene

(d) Novolac



Q. 2. Which of the following monomers form biodegradable polymers? (Also explain)

(a) 3-hydroxybutanoic acid + 3-hydroxypentanoic acid

(b) Glycine + aminocaproic acid

(c) Ethylene glycol + phthalic acid

(d) Caprolactam.



Q. 3. A natural linear polymer of 2-methyl-1,3-butadiene becomes hard on treatment with Sulphur between 373 to 415 K and -S-S-bonds are formed between chains. Write the structure of the product of this treatment?

Q. 4. Which type of biomolecules have some structural similarity with synthetic polyamides? What is similarity?

1.

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Q.5. match the polymer of column I with correct monomer of column II.

- | | |
|-------------------------------|-------------------------|
| (A) High density polyethylene | (i) isoprene |
| (B) Neoprene | (ii) Tetrafluoro ethene |
| (C) Natural rubber | (iii) chloroprene |
| (d) Teflon | (iv) Acrylonitrile |
| (e) Acilan | (v) Ethene |



Q.6. match the polymers given in column I with the preferred mode of polymerisation followed by their monomers column II

- | | |
|---------------|--|
| (A) Nylon-6,6 | (i) Free radical polymerisation |
| (B) PVC | (ii) Ziegler-Natta polymerisation or Coordination polymerisation |
| (C) HDPE | (iii) Anionic polymerisation |
| | (iv) Condensation polymerisation |



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Q.7. Synthetic polymers do not degrade in the environment for a long time. How can biodegradable synthetic polymers be made. Differentiate between biopolymers and biodegradable ~~polymers~~ polymers and give examples of each type.



Q.8. What is the role of benzoyl peroxide in addition polymerisation of alkenes? Explain its mode of action with the help of an example.



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