



CHEMISTRY

BOOKS - A N EXCEL PUBLICATION

POLYMERS

Question Bank

1. What are polymers?



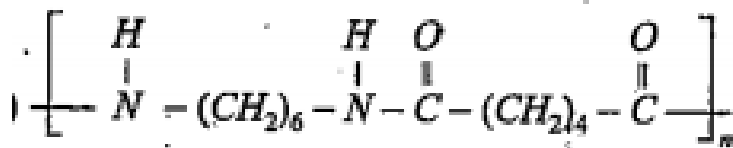
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2. How are polymers classified on the basis of structures?



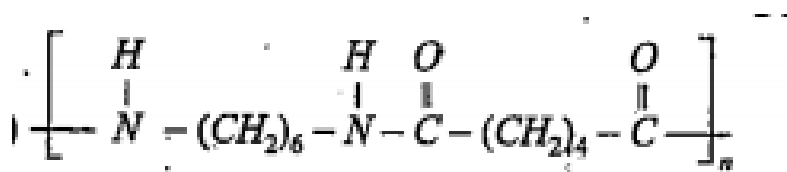
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3. Write the names of the monomers of the following polymers



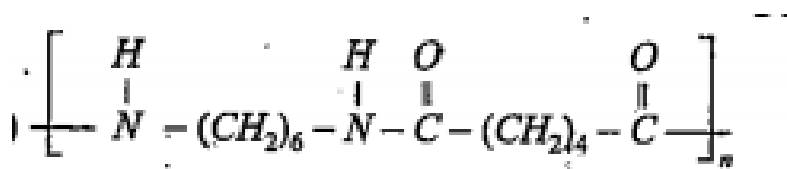
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4. Write the names of the monomers of the following polymers



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5. Write the names of the monomers of the following polymers



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6. Classify the following as addition and condensation polymers:

Terylene, Polyvinyl chloride, polythene



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7. Explain the difference between Buna-N and Buna -S



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8. Arrange the following polymers in the increasing order of their intermolecular forces.

Buna-S, Polythene, Nylon 6,6



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9. Arrange the following polymers in the increasing order of their intermolecular forces

Neoprene, Polyvinyl chloride, Nylon 6



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10. Classify the following as addition and condensation polymers:

Terylene, Polyvinyl chloride, polythene



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11. How will you prepare Nylon 6,6 ?



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12. Polymers are high molecular mass compounds having special properties so used for special purposes. Identify the following polymers X,Y and Z

X is a polymer resistant to heat and chemicals
. People use it to make non-sticky frying pans



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13. Polymers are high molecular mass compounds having special properties so used

for special purposes. Identify the following polymers X,Y and Z

Y is a polymer formed from ethylene glycol and terephthalic acid and used for making heart valves



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14. Polymers are high molecular mass compounds having special properties so used for special purposes. Identify the following polymers X,Y and Z

Z is a polymer used for making unbreakable crockery items.



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15. LDPE is a homopolymer, while nylon 6, 6 is a copolymer. Explain



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16. Classify the following into homopolymer or copolymer

Nylon 6, HDPE



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17. Polymers can be classified in many ways:

Distinguish between homopolymers and copolymers



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18. Polymers can be classified in many ways:

Give the name or formulae of the monomers

of the following Nylon 6,6



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19. Polymers can be classified in many ways:

Give the name or formulae of the monomers of the following Dacron



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20. Rubber is a natural polymer obtained from the bark of rubber trees Name the monomer

of natural rubber



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21. Rubber is a natural polymer obtained from the bark of rubber trees. Vulcanisation improves the elasticity of rubber. What is vulcanisation?



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22. Write two examples of synthetic rubber



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23. PVC, bakelite and polythene are plastics.

Classify the above plastics into thermoplastics and thermosetting plastics.



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24. PVC, bakelite and polythene are plastics

Name the monomer units of PVC and bakelite .



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25. Write two examples of synthetic rubber



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26. Synthetic rubber is a vulcanisable rubber like polymer

Write the method of preparation of the above synthetic rubber



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27. What are the monomers of Nylon 6 and Nylon 6,6



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28. Natural rubber obtained from rubber latex is soft and sticky

Suggest a method to improve the stiffness of rubber



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29. Natural rubber obtained from rubber latex is soft and sticky

Explain the above method



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30. Natural rubber obtained from rubber latex is soft and sticky

Classify the following into natural and synthetic polymers: Nylon, starch, cellulose, PVC



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31. Write any two differences between step growth polymerisation and chain growth polymerisation.



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32. What are the monomers of the following?

Neoprene



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33. What are the monomers of the following?

Nylon 6



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34. Name two thermoplastics



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35. Polymers can be classified in many ways:

Give the name or formulae of the monomers

of the following Dacron



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36. Polymers are macro molecules formed by union of monomers.

Name natural polymers and synthetic polymer



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37. Polymers are macro molecules formed by union of monomers. Distinguish between

thermoplastic and thermosetting polymers

with example



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38. Polymers are classified into elastomers, fibres, thermoplastics and thermosetting plastics, depending upon the intermolecular forces. Fill in the vacant boxes given below:

<i>Type of Polymer</i>	<i>Polymer</i>	<i>Monomer</i>
Thermosetting plastic	(i)	Phenol and Formaldehyde
(ii)	Natural Rubber	(iii)
(iv)	(v)	Caprolactam
(vi)	Polystyrene	Styrene



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39. Polymers can be classified based on molecular forces

Classify the following polymers into elastomers and fibres :

Rubber, Nylon 6, 6, Buna-S, Terylene



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40. What do you mean by thermosetting polymers ? Give one example.



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41. Polymers are different types

Identify the thermoplastic polymers from the following:

A. Bakelite

B. Nylon-6,6

C. Neoprene

D. PVC

Answer: D



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42. What are biodegradable polymers? Write an example.



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43. Which of the following is not applicable to Nylon 6, 6 ?

A. Synthetic polymer

B. Fibre

C. Addition polymer

D. Condensation polymer

Answer: C



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44. Polymers are macro molecules formed by union of monomers. Distinguish between thermoplastic and thermosetting polymers with example



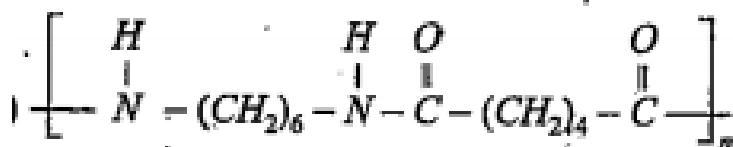
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45. Polymers are macro molecules formed by union of monomers. Distinguish between thermoplastic and thermosetting polymers with example



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46. Write the names of the monomers of the following polymers





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47. Name the monomers in the following two polymers Buna-N



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48. The following are the names of certain polymers Neoprene, Nylon, Polystyrene, silk, PVC, Bakelite.

classify the above polymers based on the intermolecular forces



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49. The following are the names of certain polymers Neoprene, Nylon, Polystyrene, silk, PVC, Bakelite.

Polystyrene and bakelite differ on the action of heat. Explain



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50. The characteristics features of certain polymers are summarised below: Polymer A : Flexible, inert to solvents, used for making non-stick utensils.

Polymer B- Hard, high melting used for making synthetic wool, carpets etc.

Polymer C: Strong, Fibrous, used for making tyre cords, ropes etc. Name the polymers A, B, and C



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51. The characteristics features of certain polymers are summarised below: Polymer A : Flexible, inert to solvents, used for making non-stick utensils.

Polymer B- Hard, high melting used for making synthetic wool, carpets etc.

Polymer C: Strong, Fibrous, used for making tyre cords, ropes etc. Give the monomers of A, B and C



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52. The characteristics features of certain polymers are summarised below: Polymer A : Flexible, inert to solvents, used for making non-stick utensils.

Polymer B- Hard, high melting used for making synthetic wool, carpets etc.

Polymer C: Strong, Fibrous, used for making tyre cords, ropes etc. Identify the addition polymer (s) among A, B and C



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53. One of the production units of FACT produces caprolactam from cyclohexane. Represent the polymerisation of caprolactam monomer and name the product.



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54. One of the production units of FACT produces caprolactam from cyclohexane. Mention two uses of the product formed?



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55. Kerala state is known for its production of natural rubber. Rubber has certain remarkable properties which make it valuable for a variety of uses

What is natural rubber chemically ?



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56. Kerala state is known for its production of natural rubber. Rubber has certain remarkable properties which make it valuable for a variety

of uses

Give the structure of the monomer of natural rubber and give its IUPAC name



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57. Kerala state is known for its production of natural rubber. Rubber has certain remarkable properties which make it valuable for a variety of uses

Write the name of a synthetic rubber which

can be considered as a homopolymer. Name the monomer from which it is prepared



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58. To a question, a student answered that bakelite is the thermosetting polymer. IS he answer correct?



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59. To a question, a student answered that bakelite is the thermosetting polymer What is a thermosetting polymer?



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60. To a question, a student answered that bakelite is the thermosetting polymer What is the type of intermolecular forces present in nylon 6,6



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61. Polymers are high molecular mass compounds having special properties so used for special purposes. Identify the following polymers X,Y and Z

Y is a polymer formed from ethylene glycol and terephthalic acid and used for making heart valves



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62. The characteristics features of certain polymers are summarised below: Polymer A : Flexible, inert to solvents, used for making non-stick utensils.

Polymer B- Hard, high melting used for making synthetic wool, carpets etc.

Polymer C: Strong, Fibrous, used for making tyre cords, ropes etc. Identify the addition polymer (s) among A, B and C



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63. Polymers are high molecular mass compounds having special properties so used for special purposes. Identify the following polymers X,Y and Z

X is a polymer resistant to heat and chemicals
. People use it to make non-sticky frying pans



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64. With the increases in use of polymers, the problem of Plastic waste has become a threat to our environment. This problem can be

solved to some extent by introducing biodegradable polymers

What are biodegradable polymers?



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65. Name a polymer used for making medicinal capsules



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66. With the increases in use of polymers, the problem of Plastic waste has become a threat to our environment. This problem can be solved to some extent by introducing biodegradable polymers

Name the monomers used for the preparation of the above polymer.



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67. Polymers are macro molecules formed by union of monomers. Distinguish between thermoplastic and thermosetting polymers with example



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68. What are the catalyst used in the preparation of LDP and HDP from ethene



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