

CHEMISTRY

BOOKS - BETTER CHOICE PUBLICATION

POLYMERS

Questions

1. Explain the terms polymers and monomers ?



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2. What are natural and synthetic polymers ?

Give two examples of each type.



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3. Write two differences between natural and synthetic polymers.



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4. Write the name of one' natural polymer.



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5. What are the differences between homo polymer and copolymer ?



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6. Define the following terms: polymerization



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7. In which classes, the polymers are classified on the basis of intermolecular forces ?



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8. Write two differences between addition and condensation polymerisation.



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9. What are plasticizers ? Give one example.



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10. What is the difference between chain growth and step growth polymerisation ?



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11. Define thermoplastic polymers.



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12. Define and explain

Thermosetting polymer



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13. Define and explain

Elastomers



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14. Write down differences between thermosetting polymers and thermoplastic polymers.



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15. State and explain the terms :

Addition polymerisation



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16. State and explain the terms :

Condensation polymerisation.



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17. State and explain the terms :

Addition polymerisation



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18. Write the name and structure of monomers of

(i) Polyvinyl chloride

(ii) Teflon

(iii) Bakelite



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19. Give two differences between natural rubber and synthetic rubber.



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20. Write the name and structure of monomer of natural rubber.



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21. Discuss the main purpose of vulcanisation.



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22. Name the monomer of Nylon-6





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23. Write the monomers chemical equation for the preparation of rubber.

Neoprene



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24. Write the monomers chemical equation for the preparation of rubber.

Buna-N



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25. Write the monomers and chemical equation used for preparation of Buna-S rubber.



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26. How will you prepare P.T.F.E. (Teflon).



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27. Write the chemical equation for the preparation of polyethene.



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28. Give the chemical equation for synthesis and uses of glyptal.



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29. Give the preparation

Nylon 6



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30. Give the preparation

Melamine



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31. How used you prepare poly vinyl chloride (P.V.C.)?



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32. Write the chemical equation and monomers for the preparation of Polystyrene.



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33. Write the names of monomers and equation for the preparation of PAN.



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34. Write the names and structures of monomers of novalac.



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35. Give the preparation and uses of Orlon



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36. Give the preparation and used of polystyrene.



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37. Write the monomers and chemical equation for the preparation of Nylon-66.



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38. Why in case of synthetic polymers molecular mass is always expressed as average molecular mass ?



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39. How can we find accurately molecular mass of a polymer ?



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40. What is a biodegradable polymer ? Give an example of a biodegradable aliphatic polyester.



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41. Write the names and structures of monomers of PHBV



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42. Name a biodegradable polyimide synthetic polymer. What are its monomers ? How is it obtained from these monomers ?



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