

CHEMISTRY

NCERT - NCERT CHEMISTRY(HINGLISH)

POLYMERS

Solved Examples

1. Is $[CH_2 - CH(C_6H_5)]_n$ a homopolymer or a copolymer?



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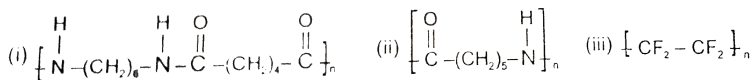
Exercise

1. What are polymers ?



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2. Write the names of monomers of the following polymers :



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3. Classify the following as addition and condensation

polymers : Terylene, Bakelite, polyvinyl chloride, polythene.



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4. What is the difference between Buna-N and Buna-S.



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5. Arrangement the following polymers in increasing order of their intermolecular forces.

Nylon 6, 6 Buna-S, Polythene.



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6. Explain the terms polymer and monomer.



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7. What are natural and synthetic polymers ?

Give two examples of each type.



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8. Distinguish between the terms homopolymer and copolymer and give an example of each.



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9. How do you explain the functionality of a monomer?



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10. Define the term polymerisation.



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11. Is $(NH - CHR - CO)_n$ a homopolymer or copolymer?



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12. In which classes, the polymers are classified on the basis of molecular forces ?



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13. How can you differentiate between addition and condensation polymerisation ?



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14. Explain the term copolymerisation and give two examples.



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15. Write the free radical mechanism for the polymerisation of ethene.



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16. Define thermoplastics and thermosetting polymers with two examples of each.



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17. Write the monomers used for getting the following polymers.

(i) Polyvinyl chloride

(ii) Teflon

(iii) Bakelite.



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18. Write the name and structure of one of the common initiators used in free radical addition polymerisations.



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19. How does the presence of double bonds in rubber molecules influence their structure and reactivity?



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20. Discuss the main purpose of vulcanisation of rubber.



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21. Which are the monomeric repeating units of Nylon-6 and Nylon-6,6 ?



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22. Write the names and structures of the monomers of the following polymers:

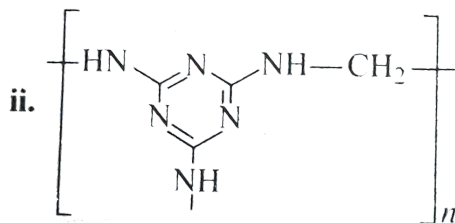
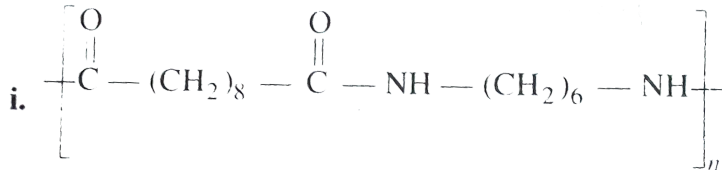
(i)Buna-S,(ii)Buna-N

(iii)Dacron,(iv)Neoprene



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23. Identify the monomer in the following polymeric structures.



(i)



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24. How is Dacron obtained from ethylene glycol and terephthalic acid?



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



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