

INDIAN SCHOOL MUSCAT

CHEMISTRY DEPARTMENT

QUESTION BANK

Polymers

1. Define polymers. 1
2. What is the difference between a homopolymer and a copolymer? 1
3. Write the monomer of Teflon. 1
4. Give preparation of polyacrylonitrile. 1
5. What is condensation polymerisation? 1
6. Why is condensation polymerisation also called on step – growth polymerisation? 1
7. How is Nylon – 6, 6 different from Nylon -6? 1
8. Give the formula of monomer of Nylon – 6. 1
9. What is copolymerisation? 1
10. What is the monomer of natural rubber? 1
11. How are the characteristics of natural rubber modified? 1
12. On what basis are polymers classified? 2
13. How are addition polymers different from condensation polymers? 2
14. What is the basic difference between following pairs: 2
 - (a) Elastomers and fibres
 - (b) Thermo setting polymer & thermo plastic polymers.
15. Explain the mechanism of polymerisation of ethene. 2
16. Differentiate between LDP and HDP. 2

17. What are Bakelite and Melamine? Give their structures. 2
18. Give the monomer and preparation of Buna – S. 2
19. How are neoprene & Buna – N prepared? Which one is a copolymer? 2
20. Give one example of biodegradable polymer. 2
21. Classify following as Homopolymer and copolymer: 2
PVC, Polystyrene, Buna – S, Neoprene, Buna – N, Teflon.
22. Classify following as addition and condensation polymer: 2
Bakelite, Polythene, Nylon – 6, 6, Polyacrylonitrile
23. Write monomers of polystyrene and PVC. 2
24. Give monomers and preparation of Nylon – 6, 6 and Dacron. 3