



# CHEMISTRY

## BOOKS - R G PUBLICATION

### POLYMERS

#### Exercise

1. Name the monomers of bakelite.



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2. Name the monomers of bakelite.



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3. What is the primary feature necessary for a monomer to make it useful in a condensation polymerization reaction?



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4. What is meant by copolymerization? Give one example of a copolymer.



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5. What are polymers?



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6. What is the role of sulphur on vulcanisation of rubber?



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**7. Name one biodegradable polymer.**



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**8. Name the monomers of bakelite.**



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**9.** What does PVC stand for? Mention its one use.



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**10.** Give one example of each of addition polymer.



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**11.** Give one example of each of addition polymer.



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**12.** Mention one use each of LDP and HDP.



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**13.** What is the monomer unit of natural rubber?



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**14.** Give one example of homopolymer and one example of co-polymer.



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**15.** Mention the structural difference between thermoplastic polymer and thermosetting polymer.



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**16.** Give one use of high density polythene.



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**17.** Give one example of each of addition polymer.



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**18.** Give one example of each of condensation polymer.



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**19.** Classify the following as addition polymer or condensation polymer: Teflon



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**20.** Classify the following as addition polymer or condensation polymer: Teflon



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**21.** Write the names and structural formulae of monomers of decron.



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**22.** Define themoplastic polymers.



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**23.** Name the monomers of polythene, Teflon and Nylon-6,6.



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**24.** What is vulcanisation of rubber?



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**25.** Give one example of each of addition polymer.



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**26.** Mention one use each of LDP and HDP.



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**27.** What is the monomer unit of natural rubber?



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**28.** What are synthetic polymers.



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**29.** What are homo polymer and co-polymer?



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**30.** Is Nylon 6,6 a homopolymer or copolymer?



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**31.** What is the characteristic of elastomer?



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**32.** Which properties of LDP make its use in electricity?



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**33.** What is Ziegler-Natta Catalyst?



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**34.** Give one example of step growth polymerisation.



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**35.** Write the structure of cis-1, 4-polyisoprene.



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**36.** What are the monomers of Buna-N-rubber?



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**37.** Name one biodegradable polymer.



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**38.** Based on molecular forces how polymers are classified? Write the type of bonds of



forces present in between various monomer units in each class with example.



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**39.** Write three differences between thermoplastic and thermosetting polymers.



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**40.** Write the different steps of free radical mechanism of polymerization reaction.



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**41.** What are polyamides? How Nylon-6,6 is prepared? Write the reaction.



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



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**43.** What do you mean by vulcanisation of rubber? By this process how the properties of natural rubber are improved?



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



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**45.** Write the monomer units, structure and two uses of the following polymer: Buna S rubber



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**46.** Write the monomer units, structure and two uses of the following polymer: PVC



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**47.** Write the monomer units, structure and two uses of the following polymer: PAN



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**48.** Write the monomer units, structure and two uses of the following polymer: Dacron



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**49.** Write the monomer units, structure and two uses of the following polymer: Nylon-6



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**50.** Write the monomer units, structure and two uses of the following polymer: Novolac



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**51.** Write the monomer units, structure and two uses of the following polymer: Bakelite



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**52.** Write the monomer units, structure and two uses of the following polymer: Glyptal



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**53.** Write the monomer units, structure and two uses of the following polymer: Urea formaldehyde resin



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**54.** Write the monomer units, structure and two uses of the following polymer: Neoprene



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