



# CHEMISTRY

## BOOKS - JMD CHEMISTRY (PUNJABI ENGLISH)

### POLYMERS

#### Example

1. Write name and the structure of the monomer of polyvinylchloride.

A. Vinyl chloride

B. Ethylene

C. Chloroprene

D. Acrylonitrile

**Answer:**



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2.  $F_2C = CF_2$  is a monomer of

A. Glyptal

B. Teflon

C. Orlon

D. Buna-S

**Answer:**



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**3.** The element used for vulcanisation of rubber is: Potassium, Sulphur, Zinc, Chlorine.

A. Potassium

B. Sulphur

C. Zinc

D. Chlorin

**Answer:**



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4. Which is not true about polymers: Polymers do not carry any charge, Polymers have high viscosity, Polymers scatter light, polymer have low molecular weight.

- A. Polymers do not carry any charge
- B. Polymers have high viscosity
- C. Polymers scatter light
- D. Polymers have low molecular weight

**Answer:**



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5. On the basis of mode of formation, polymers can be classified: as addition polymers only, as

condensation polymers only, as copolymers,  
both as addition and condensation polymers

A. as addition polymers only

B. as condensation polymers only

C. as copolymers

D. both as addition and condensation  
polymers

**Answer:**



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6. Natural rubber is a polymer of

A. butadiene

B. ethyne

C. styrene

D. isoprene

**Answer:**



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7. Teflon, styron and neoprene are all

A. copolymers

B. condensation polymers

C. homopolymers

D. monomers

**Answer:**



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**8.** Interparticle forces present in Nylon-66 are

A. van der Waal's



B. hydrogen bonding

C. dipole-dipole interactions

D. None of the above.

**Answer:**



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9. Terylene is condensation polymer of ethylene glycol and

A. benzoic acid

B. phthalic acid

C. salicylic acid

D. terephthalic acid.

**Answer:**



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**10.** Nylon—6 is made from

A. 1, S-butadiene

B. chloroprene

C. adipic acid

D. caprolactam.

**Answer:**



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**11.** Which of the following is biodegradable polymer ?

A. Cellulose

B. Polythene

C. Polyvinyl chloride

D. Nylon-6

**Answer:**



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**12.** Phenol is a monomer unit of

A. Glyptal

B. bakelite

C. Buna-N

D. PVC

**Answer:**



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**13.** Hexamethylenediamine is a monomer unit of

A. Nylon-6

B. Dacron

C. Buna-S

D. Nylon-66

**Answer:**



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**14.** Terephthalic acid is a monomer unit of

A. Dacron

B. Nylon-66

C. Buna-S

D. Teflon

**Answer:**



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**15. Vulcanisation makes rubber :**

- A. more elastic
- B. soluble in inorganic solvent
- C. crystalline
- D. none of these

**Answer:**



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**16.** Which is not true about polymers: Polymers do not carry any charge, Polymers have high viscosity, Polymers scatter light, polymer have low molecular weight.

- A. Polymers do not carry any charge
- B. Polymers have high viscosity
- C. Polymers scatter light
- D. polymer have low molecular weight



**Answer:**



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**17. Which is not a polymer ?**

A. Nylon-6

B. Rubber

C. Teflon

D. Chlorophyll

**Answer:**



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18. Which of the following is a copolymer ?

A. Buna-s

B. PAN

C. PVC

D. Polythene

**Answer:**



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19. Which of the following is not a polymer ?

A. Dacron

B. Nylon-6

C. Rubber

D. Chlorophyll

**Answer:**



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20. Which of the following is a synthetic polymer ?

A. Starch

B. Silk

C. Protein

D. Terylene

**Answer:**



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21. Lowdensity polyethene is a linear polymer.



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22. Nylon-6, 6 is an addition polymer.



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23. T/F Vulcanised rubber is a semi-synthetic polymer.



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24. Nylon—6 is made from



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25. Write name and the structure of the monomer of polyvinylchloride.



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26.  $F_2C = CF_2$  is a monomer of



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27. Which of the following is a copolymer ?



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28. Write the name of one synthetic polymer.



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29. Which of the following is a copolymer ?



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**30.** Define thermosetting polymer.



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**31.** Explain the terms polymers and monomers



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**32.** Write two differences between natural and synthetic polymers.





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**33.** Write two differences between natural and synthetic polymers.



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**34.** Write two differences between addition and condensation polymerisation.



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**35.** What are the differences between homo polymer and copolymer ?



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**36.** What is meant by co-polymerisation ? Give one example.



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**37.** Write down differences between thermosetting polymers and thermoplastic polymers.



**Watch Video Solution**

**38.** Write down differences between thermosetting polymers and thermoplastic polymers.



**Watch Video Solution**

**39.** Write two differences between addition and condensation polymerisation.



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**40.** How, is Nylon-66 synthesised and used ?



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**41.** How is Buna-S synthesised? Give it uses.



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**42.** How is Buna-N synthesised? Give it uses.



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**43.** Give the preparation of Neoprene and also give one use of it.



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**44.** Give two differences between natural rubber and synthetic rubber.



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**45.** Give method of preparation and uses of Teflon or PTFE.



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**46.** How is polyethene prepared?



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**47.** Give the preparation and uses of Nylon 6.



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**48.** Give the preparation and uses of Melamine formaldehyde resin.



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**49.** Define PVC (Polyvinyl chloride). Write its monomer.



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**50.** How is terylene synthesised ? What type of polymer is it ? Give its uses.



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**51.** How will you prepare Nylon 6 and Bakelite ?







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**52.** What are biodegradable polymers ? Give chemical equation for the preparation of any one biodegradable polymer.



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**53.** Name a biodegradable polyamide polymer. What are its monomers ? How is it obtained from these monomers ?



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54. Write name and the structure of the monomer of polyvinylchloride.

A. Vinyl chloride

B. Ethylene

C. Chloroprene

D. Acrylonitrile

**Answer:**



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55.  $F_2C = CF_2$  is a monomer of

A. Glyptal

B. Teflon

C. Orlon

D. Buna-S

**Answer:**



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56. The element used for vulcanisation of rubber is

A. Potassium

B. Sulphur

C. Zinc

D. Chlorin

**Answer:**



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57. Which is not true about polymers?

- A. Polymers do not carry any charge
- B. Polymers have high viscosity
- C. Polymers scatter light
- D. Polymer have low molecular weight

**Answer:**



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58. On the basis of mode of formation, polymers can be classified

A. as addition polymers only

B. as condensation polymers only

C. as copolymers

D. both as addition and condensation polymers

**Answer:**



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**59.** Natural rubber is a polymer of

A. butadiene

B. ethyne

C. styrene

D. isoprene

**Answer:**



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60. Teflon, styron and neoprene are all

A. copolymers

B. condensation polymers

C. homopolymers

D. monomers

**Answer:**



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61. Interparticle forces present in Nylon-66 are

- A. van der Waal's
- B. hydrogen bonding
- C. dipole-dipole interactions
- D. None of the above.

**Answer:**



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62. Name the monomers of terylene.

A. benzoic acid

B. phthalic acid

C. salicylic acid

D. terephthalic acid.

**Answer:**



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63. Nylon—6 is made from

A. 1, S-butadiene

B. chloroprene

C. adipic acid

D. caprolactam.

**Answer:**



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**64.** Which of the following is biodegradable polymer ?

A. Cellulose

B. Polythene

C. Polyvinyl chloride

D. Nylon-6

**Answer:**



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65. Phenol is a monomer unit of

A. Glyptal

B. bakelite

C. Buna-N

D. PVC

**Answer:**



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**66.** Hexamethylenediamine is a monomer unit of

A. Nylon-6,6

B. Dacron

C. Buna-S

D. Nylon-G

**Answer:**



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67. Terephthalic acid is a monomer unit of

A. Dacron

B. Nylon-66

C. Buna-S

D. Teflon

**Answer:**



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68. Vulcanisation makes rubber :

A. more elastic

B. soluble in inorganic solvent

C. crystalline

D. none of these

**Answer:**



**Watch Video Solution**

**69.** Which is not true about polymers?

A. Polymers do not carry any charge



B. Polymers have high viscosity

C. Polymers scatter light

D. polymers have low molecular weight

**Answer:**



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**70.** Which is not a polymer ?

A. Nylon-6

B. Rubber

C. Teflon

D. Chlorophyll

**Answer:**



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**71. Which of the following is a copolymer ?**

A. Buna-s

B. PAN

C. PVC

D. Polythene

**Answer:**



**Watch Video Solution**

**72. Which is not a polymer ?**

A. Dacron

B. Nylon-6

C. Rubber

D. Chlorophyll

**Answer:**



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**73.** Which of the following is a synthetic polymer ?

A. Starch

B. Silk

C. Protein

D. Terylene

**Answer:**



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**74.** Which one of the following is a linear polynomial :



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**75.** Nylon-6, 6 is an addition polymer.



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76. T/F Vulcanised rubber is a semi-synthetic polymer.



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77. Nylon—6 is made from



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78. Write name and the structure of the monomer of polyvinylchloride.



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79.  $F_2C = CF_2$  is a monomer of



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80. Buna-S is a copolymer of butadiene and styrene.(T/F)



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**81.** Which of the following is a synthetic polymer ?



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**82.** PVC is a copolymer.



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**83.** Polyethene is a thermosetting polymer.



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**84.** Explain the terms polymers and monomers



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**85.** Write two differences between natural and synthetic polymers.



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**86.** Write two differences between natural and synthetic polymers.



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**87.** Write two differences between addition and condensation polymerisation.



**Watch Video Solution**

**88.** What are the differences between homo polymer and copolymer ?



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**89.** Explain the terms copolymer and copolymerisation and give two examples.



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**90.** Write down differences between thermosetting polymers and thermoplastic polymers.



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**91.** What is the differentiate between thermosetting and thermoplastic polymers ?  
Give one example of each.



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**92.** Write two differences between addition and condensation polymerisation.



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**93.** How, is Nylon-6,6 synthesised and used ?



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**94.** How is Buna-S synthesised? Give it uses.



**Watch Video Solution**

**95.** How is Buna-N synthesised? Give it uses.



**Watch Video Solution**

**96.** Give the preparation of Neoprene and also give one use of it.



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**97.** Give two differences between natural rubber and synthetic rubber.



**Watch Video Solution**

**98.** Give method of preparation and uses of Teflon or PTFE.



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**99.** How is polythene prepared?



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**100.** Give the preparation and uses of Nylon 6.



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**101.** Give the preparation and uses of Melamine formaldehyde resin.



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**102.** How is PVC (Poly Vinyl Chloride) manufactured ? Give Its uses.



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**103.** How is terylene synthesised ? What type of polymer is it ? Give its uses.



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**104.** Give the synthesis of Bakelite.





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**105.** What are biodegradable polymers ? Give chemical equation for the preparation of any one biodegradable polymer.



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**106.** Name a biodegradable polyamide synthetic polymer. What are its monomers ? How is it obtained from these monomers ?



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