



CHEMISTRY

BOOKS - DISHA CHEMISTRY (HINGLISH)

POLYMERS

Mcqs

1. Which of the following catalyst is used in preparation of high density polythene ?

- A. Peroxide catalyst
- B. Ziegler - Natta catalyst
- C. Wilkinson's catalyst

D. Pd - catalyst

Answer: B



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2. Among cellulose, polyvinyl chloride, nylon and natural rubber, the polymer in which the intermolecular force of attraction is weakest is

A. nylon

B. polyvinyl chloride

C. cellulose

D. natural Rubber

Answer: D



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3. Polyvinylalcohol can be prepared by

A. polymerization of vinyl alcohol

B. alkaline hydrolysis of polyvinyl acetate

C. polymerization of acetylene

D. reaction of acetylene with H_2SO_4 in presence of



Answer: B



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4. Which of the following polymer is an example of fibre ?

A. Silk

B. Dacron

C. Nylon-6, 6

D. All of these

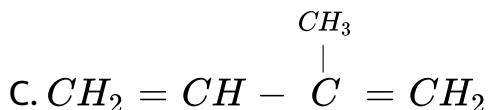
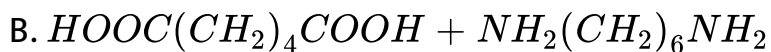
Answer: D



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5. Which compound/set of compounds is used in the manufacture of nylon 6?

A. 



D. 

Answer: D

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6. The polymer containing strong intermolecular forces e.g. hydrogen bonding, is

A. teflon

B. nylon 6,6

C. polystyrene

D. natural Rubber

Answer: D

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7. Which one of the following polymers is prepared by condensation polymerisation?

A. Teflon

B. Natural rubber

C. Styrene

D. Nylon-6, 6

Answer: D



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8. Three dimensional molecules with cross links are formed in the case of a

- A. thermoplastic
- B. thermosetting plastic
- C. both (a) and (b)
- D. none of the above

Answer: B



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9. In elastomer, intermolecular forces are

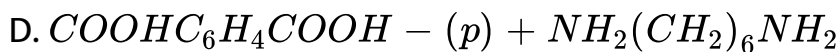
- A. strong
- B. weak
- C. nil
- D. none of these

Answer: B



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10. Nylon 6, 6 is a polyamide obtained by the reaction of

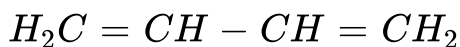
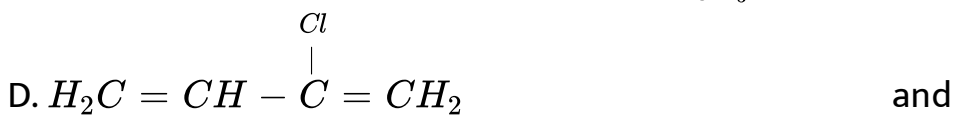
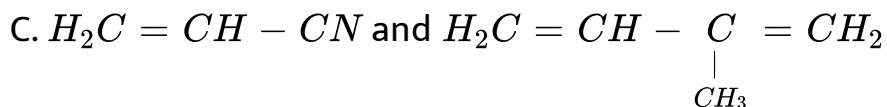


Answer: B



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11. Buna-N synthetic rubber is a copolymer of:



Answer: B



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12. Interparticle forces present in nylon-6, 6 are

A. van der Waal 's

B. hydrogen bonding

C. dipole-dipole interactions

D. None of the above

Answer: B

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13. Monomer of $\left[\begin{array}{c} CH_3 \\ | \\ - C - CH_2 - \\ | \\ CH_3 \end{array} \right]$ is

A. 2-Methylpropene

B. Styrene

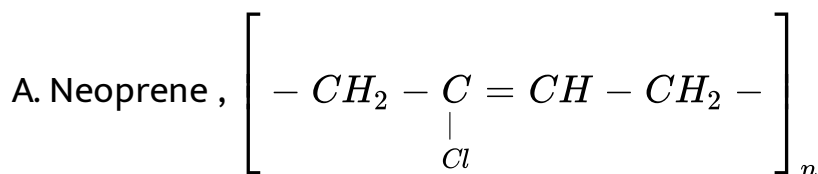
C. Propylene

D. Ethene

Answer: A

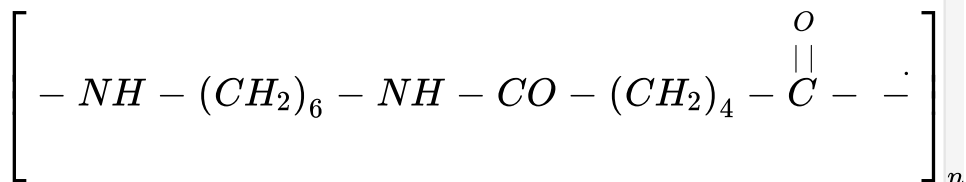
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14. Which of the following is not correctly matched?

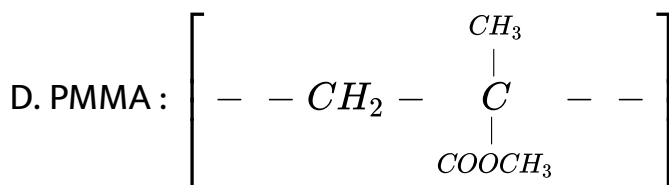


B. Nylon

6,6



C. 



Answer: B

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15. Which of the following compound is used for preparation of melamine formaldehyde polymer ?

A. 

B. 

C. 

D. 

Answer: C

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16. Acrilan is a hard, horny and a high melting material. Which of the following represents its structure?

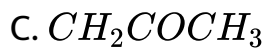
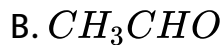
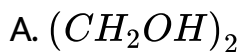
- A. $\left(\text{--- CH}_2 \text{---} \begin{array}{c} \text{CH}_3 \\ | \\ \text{C} \\ | \\ \text{COOCH}_3 \end{array} \text{---} \right)_n$
- B. $\left(\text{--- CH}_2 \text{---} \begin{array}{c} \text{C} \text{ H} \\ | \\ \text{COOC}_2\text{H}_5 \end{array} \text{---} \right)_n$
- C. $\left(\text{--- CH}_2 \text{---} \begin{array}{c} \text{CH} \\ | \\ \text{Cl} \end{array} \text{---} \right)_n$
- D. $\left(\text{--- CH}_2 \text{---} \begin{array}{c} \text{CH} \\ | \\ \text{CN} \end{array} \text{---} \right)_n$

Answer: D



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17. Bakelite is obtained from phenol by reacting with



Answer: D



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18. Polymer formation from monomers starts by

A. condensation reaction between monomers

B. coordinate reaction between monomers

C. conversion of monomer to monomer ions by protons

D. hydrolysis of monomers

Answer: A



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19. Melamine plastic crockery is a codensation polymer of

- A. HCHO and melamine
- B. HCHO and ethylene
- C. melamine and ethylene
- D. None of these

Answer: A



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20. Which of the following is a polyamide?

A. Bakelite

B. Terylene

C. Nylon-6, 6

D. Tetlon

Answer: C



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21. Terylene is a condensation polymer of ethylene glycol and

A. benzoic acid

B. phthalic acid

C. salicyclic acid

D. terephthalic acid

Answer: D



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22. The monomer of the polymer,



A. 

B. $CH_3CH = CHCH_3$

C. $CH_3CH = CH_2$

D. $(CH_3)_2C = C(CH_3)_2$

Answer: A



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23. Generally, molecular mass of a polymer is over

A. 100

B. 500

C. 1000

D. 10000

Answer: D



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24. Plexiglas (PMMA) is a polymer of

- A. acrylic acid
- B. methyl acrylate
- C. methyl methacrylate
- D. None of these

Answer: C



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25. Which one of the following is not a condensation polymer

?

- A. Melamine
- B. Glyptal
- C. Dacron

D. Neoprene

Answer: D



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26. Dacron is obtained by the condensation polymerisation of:

A. Dimethyl terephthalate and ethylene glycol

B. Terephthalic acid and formaldehyde

C. Phenol and phthalic acid

D. Phenol and formaldehyde

Answer: A



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27. Which of the following is not a copolymer?

A. Buna-S

B. Bakelite

C. Neoprene

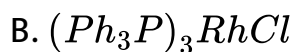
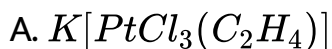
D. Dacron

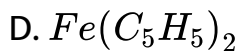
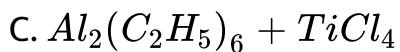
Answer: C



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28. Ziegler-Natta catalyst is





Answer: C



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29. Dacron is a -

A. crease resistant

B. polyamide

C. addition polymer

D. polymer of ethylene glycol and phthalic acid

Answer: A



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30. The turbidity of a polymer solution measures

- A. the light scattered by solution
- B. the light absorbed by a solution
- C. the light transmitted by a solution
- D. None of these

Answer: A



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31. Which of the following polymers do not involve cross linkages?

A. Melmac

B. Bakelite

C. Polythene

D. Vulcanised rubber

Answer: C



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32. Which of the following statements are correct?

(i) Buna-N being resistant to the action of petrol, lubricating oil and organic solvents is used in making oil seals.

(ii) Biodegradable polymers are manufactured because of low chemical resistance, strength and durability of conventional polymers

(iii) PHBV is a copolymer used in the manufacture of orthopaedic devices

(iv) Nylon 2-nylon 6 is a biodegradable polymer.

A. (i), (ii) and (iii)

B. (ii), (iii) and (iv)

C. (i), (iii) and (iv)

D. (i) and (iv)

Answer: C



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33. Arrange the following in increasing order of their melting point.

(1) Nylon 2,2, (2)Nylon 2,4, (3)Nylon2,6, (4)Nylon 2,10

A. 1,2,3,4

B. 3,4,2,1

C. 2,1,3,4

D. 4,3,2,1

Answer: D



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34. A copolymer of isobutylene and isoprene is called:

A. butyl rubber

B. buna-S

C. buna-N

D. thiokol

Answer: A



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35. Ebonite is

- A. natural rubber
- B. synthetic rubber
- C. highly vulcanized rubber
- D. polypropene

Answer: C



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36. Orlon is a polymer of

- A. styrene
- B. tetrafluoroethylene
- C. vinyl chloride
- D. acrylonitrile

Answer: D



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37. Among the following polymers the strongest molecular forces are present in

- A. elastomers

B. fibres

C. thermoplastics

D. thermosetting polymers

Answer: D



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38. Caprolactam polymerises to give

A. terylene

B. teflon

C. glyptal

D. Nylon-6

Answer: D



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39. Match Column-I (Monomer) with Column-II (Polymer) and select the correct answer using the codes given below the lists:



A. A-V , B-I , C-II , D-III

B. A-V , B-I , C-III , D-II

C. A-IV , B-III, C-I , D-II

D. A-IV , B-III , C-II , D-I

Answer: B



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40. Which of the following is novolac ?

A. 

B. 

C. 

D. 

Answer: D



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41. Match the polymers given in Column-I with their chemical names given in Column-II



A. A-III , B-I , C-II , D-V , E-IV

B. A-IV , B-II , C-V , D-III , E-I

C. A-V , B-IV , C-I , D-II , E-III

D. A-IV , B-V , C-III , D-II , E-I

Answer: A



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42. Two condensation polymers are made

(1) ethylene diamine + ethane-1, 2-dicarboxylic acid

(2) trimethylenediamine + ethane-1, 2- dicarboxylic acid if both polymers of same molecular weight are obtained then which of the following statements is/are correct ?

(i) Polymer (1) is found to melt at lower temperahrre.

(ii) Polymer (2) is found to melt at lower temperature.

(iii) H-bonding is major factor

A. (i), (ii) and (iii)

B. Only (ii)

C. (i) and (iii)

D. (ii) and (iii)

Answer: D



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43. Which of the following polymer is used for making phonograph records ?

A. Bakelite

B. Dacron

C. Teflon

D. PVC

Answer: A



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44. Which of the following statements is not true about low density polythene?

A. Tough

B. Hard

C. Poor conductor of electricity

D. Highly branched struture

Answer: C



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45. Polymer used in bullet proof glass is

A. PMMA

B. Lexan

C. Nomex

D. Kevlar

Answer: B



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1.0

- A. Which of the following catalyst is used in preparation of high density polythene ?
- B. Peroxide catalyst
- C. Ziegler - Natta catalyst
- D. Wilkinson's catalyst

Answer: Pd - catalyst



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1.0

- A. Among cellulose, polyvinyl chloride, nylon and natural rubber, the polymer in which the intermolecular force of attraction is weakest is
- B. nylon
- C. polyvinyl chloride
- D. cellulose

Answer: natural Rubber



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1.0

- A. Polyvinylalcohol can be prepared by
- B. polymerization of vinyl alcohol
- C. alkaline hydrolysis of polyvinyl acetate
- D. polymerization of acetylene

Answer: reaction of acetylene with H_2SO_4 in presence of $HgSO_4$



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Neet Che Dpp C 29 E 01 004

1.0

- A. Which of the following polymer is an example of fibre ?
- B. Silk
- C. Dacron
- D. Nylon-6, 6

Answer: All of these



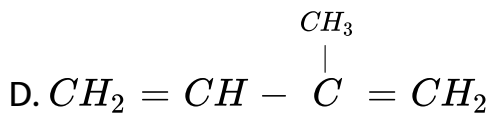
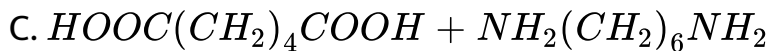
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Neet Che Dpp C 29 E 01 005

1.0

A. Which compound/set of compounds is used in the manufacture of nylon 6?

B. 



Answer: (##NΞT_CHE_DPP_C29_E01_005 - 004##)

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Neet Che Dpp C 29 E 01 006

1.0

A. The polymer containing strong intermolecular forces

e.g. hydrogen bonding, is

B. teflon

C. nylon 6,6

D. polystyrene

Answer: natural Rubber



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Neet Che Dpp C 29 E 01 007

1.0

A. Which one of the following polymers is prepared by condensation polymerisation?

B. Teflon

C. Natural rubber

D. Styrene

Answer: Nylon-6, 6



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Neet Che Dpp C 29 E 01 008

1.0

- A. Three dimensional molecules with cross links are formed in the case of a
- B. thermoplastic
- C. thermosetting plastic
- D. both (a) and (b)

Answer: none of the above



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Neet Che Dpp C 29 E 01 009

1.0

A. In elastomer, intermolecular forces are

B. strong

C. weak

D. nil

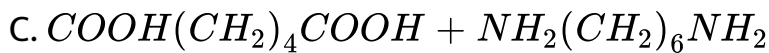
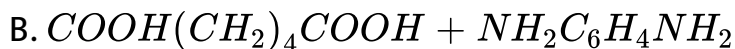
Answer: none of these



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1.0

A. Nylon 6, 6 is a polyamide obtained by the reaction of



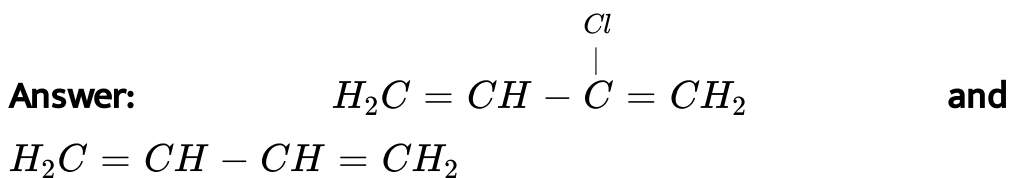
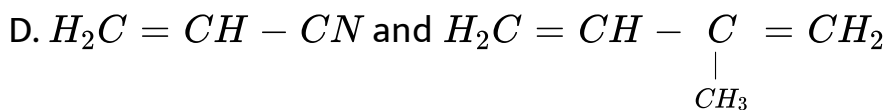
Answer: $\text{COOHC}_6\text{H}_4\text{COOH} - (p) + \text{NH}_2(\text{CH}_2)_6\text{NH}_2$



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1.0

A. Buna-N synthetic rubber is a copolymer of:



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Neet Che Dpp C 29 E 01 012

1.0

- A. Interparticle forces present in nylon-6, 6 are
- B. van der Waal 's
- C. hydrogen bonding
- D. dipole-dipole interactions

Answer: None of the above

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Neet Che Dpp C 29 E 01 013

1.0

A. Monomer of $\left[\begin{array}{c} CH_3 \\ | \\ - C - CH_2 - \\ | \\ CH_3 \end{array} \right]$ is

B. 2-Methylpropene

C. Styrene

D. Propylene

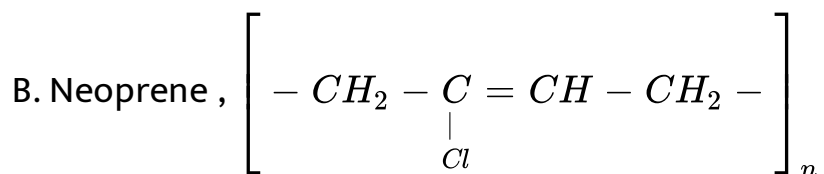
Answer: Ethene

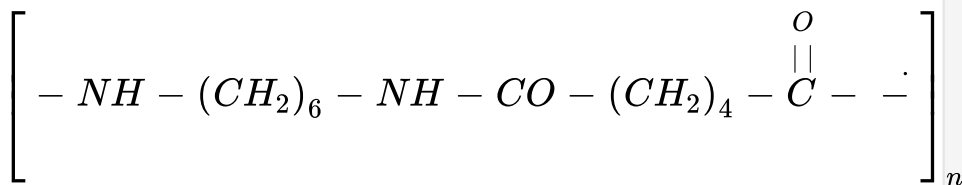
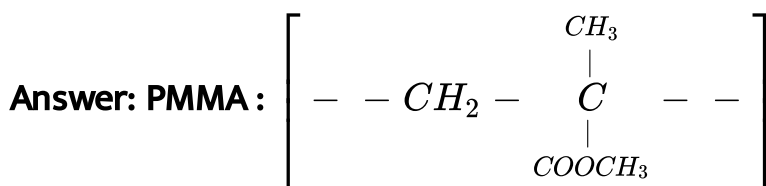
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Neet Che Dpp C 29 E 01 014

1.0

A. Which of the following is not correctly matched?



D. 

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Neet Che Dpp C 29 E 01 015

1.0

A. Which of the following compound is used for preparation of melamine formaldehyde polymer ?

B. 

C. 

D. 

Answer: (##N \exists T_CHE_DPP_C29_E01₀₁₅ – 004##)

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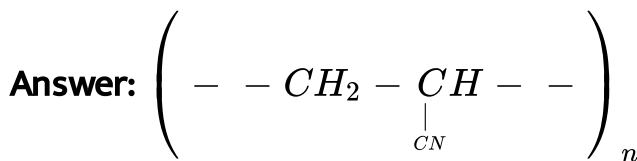
Neet Che Dpp C 29 E 01 016

1.0

A. Acrilan is a hard, horny and a high melting material.

Which of the following represents its structure?

- B. $\left(- - CH_2 - \begin{array}{c} CH_3 \\ | \\ C \\ | \\ COOCH_3 \end{array} - - \right)_n$
- C. $\left(- - CH_2 - \begin{array}{c} C \\ | \\ COOC_2H_5 \end{array} H - - \right)_n$
- D. $\left(- - CH_2 - \begin{array}{c} CH \\ | \\ Cl \end{array} - - \right)_n$



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1.0

A. Bakelite is obtained from phenol by reacting with

B. $(CH_2OH)_2$

C. CH_3CHO

D. CH_2COCH_3

Answer: HCHO



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Neet Che Dpp C 29 E 01 018

1.0

- A. Polymer formation from monomers starts by
- B. condensation reaction between monomers
- C. coordinate reaction between monomers
- D. conversion of monomer to monomer ions by protons

Answer: hydrolysis of monomers



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Neet Che Dpp C 29 E 01 019

1.0

- A. Melamine plastic crockery is a condensation polymer of
- B. HCHO and melamine

C. HCHO and ethylene

D. melamine and ethylene

Answer: None of these



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Neet Che Dpp C 29 E 01 020

1.0

A. Which of the following is a polyamide?

B. Bakelite

C. Terylene

D. Nylon-6, 6

Answer: Tetlon



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Neet Che Dpp C 29 E 01 021

1.0

- A. Terylene is a condensation polymer of ethylene glycol
and
- B. benzoic acid
- C. phthalic acid
- D. salicylic acid

Answer: terephthalic acid

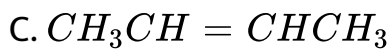
Neet Che Dpp C 29 E 01 022

1.0

A. The monomer of the polymer,



B. 



Answer: $(CH_3)_2C = C(CH_3)_2$

1.0

A. Generally, molecular mass of a polymer is over

B. 100

C. 500

D. 1000

Answer: 10000



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1.0

A. Plexiglas (PMMA) is a polymer of

B. acrylic acid

C. methyl acrylate

D. methyl methacrylate

Answer: None of these



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Neet Che Dpp C 29 E 01 025

1.0

A. Which one of the following is not a condensation polymer ?

B. Melamine

C. Glyptal

D. Dacron

Answer: Neoprene



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Neet Che Dpp C 29 E 01 026

1.0

- A. Dacron is obtained by the condensation polymerisation of:
- B. Dimethyl terephthalate and ethylene glycol
- C. Terephthalic acid and formaldehyde
- D. Phenol and phthalic acid

Answer: Phenol and formaldehyde



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Neet Che Dpp C 29 E 01 027

1.0

A. Which of the following is not a copolymer?

B. Buna-S

C. Bakelite

D. Neoprene

Answer: Dacron



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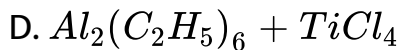
Neet Che Dpp C 29 E 01 028

1.0

A. Ziegler-Natta catalyst is

B. $K[PtCl_3(C_2H_4)]$

C. $(Ph_3P)_3RhCl$



Answer: $Fe(C_5H_5)_2$



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Neet Che Dpp C 29 E 01 029

1.0

- A. Dacron is a -
- B. crease resistant
- C. polyamide
- D. addition polymer

Answer: polymer of ethylene glycol and phthalic acid



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Neet Che Dpp C 29 E 01 030

1.0

- A. The turbidity of a polymer solution measures
- B. the light scattered by solution
- C. the light absorbed by a solution
- D. the light transmitted by a solution

Answer: None of these



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1.0

A. Which of the following polymers do not involve cross linkages?

B. Melmac

C. Bakelite

D. Polythene

Answer: Vulcanised rubber



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1.0

A. Which of the following statements are correct?

(i) Buna-N being resistant to the action of petrol, lubricating oil and organic solvents is used in making oil seals.

(ii) Biodegradable polymers are manufactured because of low chemical resistance, strength and durability of conventional polymers

(iii) PHBV is a copolymer used in the manufacture of orthopaedic devices

(iv) Nylon 2-nylon 6 is a biodegradable polymer.

B. (i), (ii) and (iii)

C. (ii), (iii) and (iv)

D. (i), (iii) and (iv)

Answer: (i) and (iv)



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Neet Che Dpp C 29 E 01 033

1.0

A. Arrange the following in increasing order of their melting point.

(1) Nylon 2,2, (2)Nylon 2,4, (3)Nylon2,6, (4)Nylon 2,10

B. 1,2,3,4

C. 3,4,2,1

D. 2,1,3,4

Answer: 4,3,2,1

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Neet Che Dpp C 29 E 01 034

1.0

A. A copolymer of isobutylene and isoprene is called:

B. butyl rubber

C. buna-S

D. buna-N

Answer: thiokol



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Neet Che Dpp C 29 E 01 035

1.0

- A. Ebonite is
- B. natural rubber
- C. synthetic rubber
- D. highly vulcanized rubber

Answer: polypropene



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Neet Che Dpp C 29 E 01 036

1.0

A. Orlon is a polymer of

B. styrene

C. tetrafluoroethylene

D. vinyl chloride

Answer: acrylonitrile



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Neet Che Dpp C 29 E 01 037

1.0

- A. Among the following polymers the strongest molecular forces are present in
- B. elastomers
- C. fibres
- D. thermoplastics

Answer: thermosetting polymers



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Neet Che Dpp C 29 E 01 038

1.0

A. Caprolactam polymcriscs to give

B. terylene

C. teflon

D. glyptal

Answer: Nylon-6



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Neet Che Dpp C 29 E 01 039

1.0

A. Match Column-I (Monomer) with Column-II (Polymer)

and select the correct answer using the codes given

below the lists:



B. A-V , B-I , C-II , D-III

C. A-V , B-I , C-III , D-II

D. A-IV , B-III, C-I , D-II

Answer: A-IV ; B-III ; C-II ; D-I



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Neet Che Dpp C 29 E 01 040

1.0

A. Which of the following is novolac ?

B. 

C. 

D. 

Answer: (##N \exists T_CHE_DPP_C29_E01₀₄₀ – 004##)



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Neet Che Dpp C 29 E 01 041

1.0

A. Match the polymers given in Column-I with their chemical names given in Column-II



B. A-III , B-I , C-II , D-V , E-IV

C. A-IV , B-II , C-V , D-III , E-I

D. A-V , B-IV , C-I , D-II , E-III

Answer: A-IV ; B-V ; C-III ; D-II ; E-I



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Neet Che Dpp C 29 E 01 042

1.0

A. Two condensation polymers are made

(1) ethylene diamine + ethane-1, 2-dicarboxylic acid

(2) trimethylenediamine + ethane-1, 2- dicarboxylic acid

if both polymers of same molecular weight are obtained
then which of the following statements is/are correct ?

(i) Polymer (1) is found to melt at lower temperature.

(ii) Polymer (2) is found to melt at lower temperature.

(iii) H-bonding is major factor

B. (i), (ii) and (iii)

C. Only (ii)

D. (i) and (iii)

Answer: (ii) and (iii)



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1.0

A. Which of the following polymer is used for making phonograph records ?

B. Bakelite

C. Dacron

D. Teflon

Answer: PVC



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Neet Che Dpp C 29 E 01 044

1.0

A. Which of the following statements is not true about low density polythene?

B. Tough

C. Hard

D. Poor conductor of electricity

Answer: Highly branched structure



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Neet Che Dpp C 29 E 01 045

1.0

A. Polymer used in bullet proof glass is

B. PMMA

C. Lexan

D. Nomex

Answer: Kevlar



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