



CHEMISTRY

BOOKS - MTG CHEMISTRY (ENGLISH)

PRACTICE PAPER -2

Mcqs

1. Which of the following pairs form the same osazone ?

- A. Glucose and fructose
- B. Glucose and galactose
- C. Glucose and arabinose
- D. Lactose and maltose

Answer: A



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2. Which of the following is satisfied by an ideal solution ?

A. Formation of an azeotropic mixture

B. $\Delta S_{mix} = 0$

C. Raoult's law is obeyed under particular set of conditions only

D. $\Delta H_{mix} = 0$

Answer: D



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3. Which one has the highest melting point ?

- A. Ionic crystal
- B. Molecular crystal
- C. Covalent crystal
- D. Metallic crystal

Answer: C



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4. Match the column I with column II and mark the appropriate choice.

Column I		Column II	
(A)	Acetyl salicylic acid	(i)	Insecticide
(B)	DDT	(ii)	Drug
(C)	Naphthalene	(iii)	Fire extinguisher
(D)	Carbon tetrachloride	(iv)	Moth repelling

A. $A \rightarrow ii, B \rightarrow I, C \rightarrow iv, D \rightarrow iii$

B. $A \rightarrow iii, B \rightarrow iv, C \rightarrow I, D \rightarrow ii$

C. $A \rightarrow ii, B \rightarrow iv, C \rightarrow iii, D \rightarrow i$

D. $A \rightarrow iv, B \rightarrow I, C \rightarrow iii, D \rightarrow ii$

Answer: A



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5. Lanthanoids are-

A. 14 elements in the sixth period (atomic no. 90 to 103) that are filling 4f sublevel

B. 14 elements in the seventh period (atomic no. 90 to 103) that are filling 5f sublevel

C. 14 elements in the sixth period (atomic no. 58 to 71) that are filling the 4f sublevel

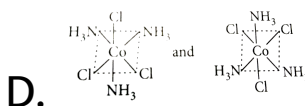
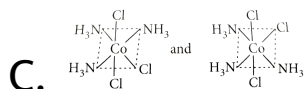
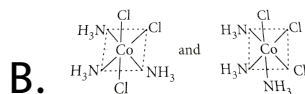
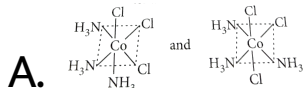
D. 14 elements in the seventh period
(atomic no. 50 to 71) that are filling 4f
sublevel.

Answer: C



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6. Which of the following pairs of structures represents facial and meridional isomers respectively ?



Answer: A

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7. What is the main composition of matte?

A. CuS

B. CuO

C. Cu_2S

D. Cu_2O

Answer: C



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8. Which of the following does not show positive deviation from Raoult's law ?

A. Phenol-aniline

B. Ethanol-acetone

C. Acetone-carbon disulphide

D. Methanol -water

Answer: A



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9. Which of the following is not an artificial sweetener ?

A. Sucralose

B. Alitame

C. Saccharin

D. Sucrose

Answer: D



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10. Equanil is an example of

A. artificial sweeteners

B. tranquilizers

C. antihistamines

D. antifertility drugs .

Answer: B



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11. The freezing point depression of 0.1 molal solution of acetic acid in benzene is 0.256 K , K_f for benzene is $5.12 \text{ K Kg mol}^{-1}$. What conclusion can you draw about the molecular state of acetic acid in benzene ?

A. Acetic acid is doubly associated

B. Benzene is doubly associated

C. Both are equally associated

D. None of the above.

Answer: A



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12. An example of dibasic acid is

A. orthophosphorous acid

B. orthophosphoric acid

C. hypophosphorous acid

D. pyrophosphoric acid.

Answer: B



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13. Synthetic rubbers are usually obtained by copolymerisation of

A. alkane and 1,3 - butadiene

B. 1,4 - polyisoprene

C. urea and formaldehyde

D. alkene and 1,3 -butadiene.

Answer: D



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14. The arrangement ABC ABC...is referred to as

A. octahedral close packing

B. hexagonal close packing

C. tetrahedral close packing

D. cubic close packing

Answer: D



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15. The number of Faradays needed to reduce

4 g equivalents of Cu^{2+} to Cu metal will be

A. 1

B. 2

C. 1/2

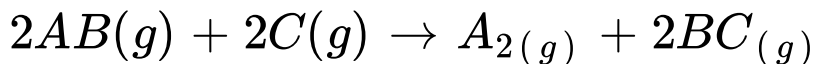
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Answer: D



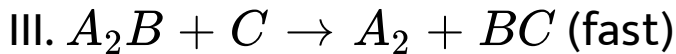
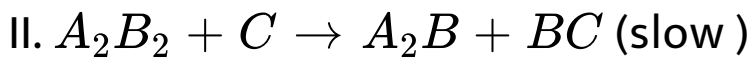
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10^2 M^{-1} and rate constant for the step II is

$$3.0 \times 10^{-3} \text{ mol}^{-1} \text{ min}^{-1}$$

A. $0.0716 \text{ M min}^{-1}$

B. $0.0891 \text{ M min}^{-1}$

C. 0.006 M min^{-1}

D. $0.0257 \text{ M min}^{-1}$

Answer: C



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A. C-5 and C-2 respectively of the sugar molecule

B. C-2 and C-5 respectively of the sugar molecule

C. C-1 and C-5 respectively of the sugar molecule

D. C-5 and C-1 respectively of the sugar molecule.

Answer: C



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18. MgO crystallized as rock salt. The number of nearest oxide ions to Mg^{2+} ion is

A. two

B. four

C. six

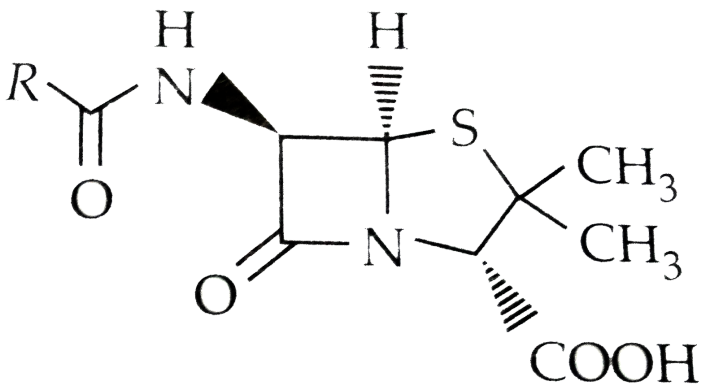
D. twelve

Answer: C



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19. Name of the drug whose structure given below is



A. Chloramphenicol

B. vancomycin

C. penicillin

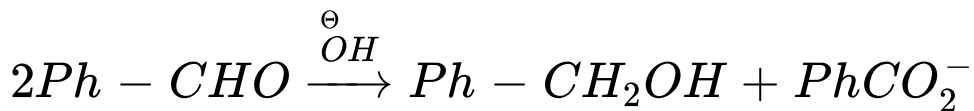
D. ofloxacin

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20. In the Cannizzaro reaction given below:



the slowest step is:

- A. the attack of :OH^- at the carbonyl group
- B. the transfer of hydride to the carbonyl group
- C. The abstraction of proton from the carboxylic group

D. The deprotonation of $PhCH_2OH$

Answer: B



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21. In the following question, a statement of assertion is followed by a statement of reason.

Mark the correct choice.

Assertion : In any ionic solid $[MX]$ with schottky defects, the number of positive and negative ions are same.

Reason : Equal number of cation and anion vacancies are present .

A. Both assertion and reason are true and reason is the correct explanation of assertion .

B. Both assertion and reason are true but reason.

C. Assertion is true but reason is false.

D. Both assertion and reason are false.

Answer: A



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22. A synthetic polyamide prepared by prolonged heating of caprolactam is

A. nylon 6,6

B. nylon 6

C. nylon 6,10

D. glyptal.

Answer: B



23. In the long form of the periodic table, the transition metals are placed in

- A. s-block
- B. f-block
- C. d-block
- D. s and p- block.

Answer: C



24. Which of the following is a colligative property ?

A. Surface tension

B. Viscosity

C. Refractive index

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B. Halogens show only-1 oxidation agents.

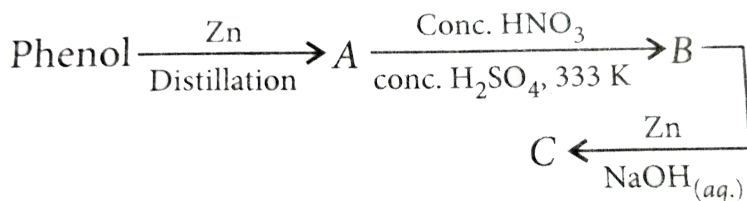
C. HF molecules form intermolecular hydrogen bonding .

D. Fluorine is highly reactive.

Answer: B



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26.

In the above reaction sequence, A , B and C respectively are

A. benzene, nitrobenzene, aniline

B. benzene ,m-dinitrobenzene , m-nitroaniline

C. toluene, m-nitrotoluene, m-toluidine

D. benzene, nitrobenzene, hydrazobenzene.

Answer: D



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27. Four successive members of the first row transition elements are listed below with their atomic number. Which one of them is expected to have the highest third ionisation enthalpy ?

A. Vanadium ($Z = 23$)

B. Manganese ($Z = 25$)

C. Chromium ($Z = 24$)

D. Iron ($Z=26$)

Answer: B



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28. Alcohols of low molecular weight are

A. soluble in water

B. soluble in water on heating

C. insoluble in water

D. insoluble in all solvents.

Answer: A



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29. Which of the following statement are correct ?

(i) Smaller the gold number of lyophilic colloid, larger will be its protective power

(ii) Lyophilic sols , in contrast to lyophobic sols are easily coagulated on addition of small

amounts of electrolytes.

(iii) Ferric chloride solution is used to stop bleeding from a fresh cut because it coagulating the blood

(iv) The flocculation value of arsenious sulphide sol is independent of the anion of the coagulating

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

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

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

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

Answer: B



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30. The method of zone refining of metals is based on the principle of

A. greater mobility of pure metal than that of impurity

B. higher melting point of the impurity than that of pure metal

C. greater noble character of solid metal
than that of impurity

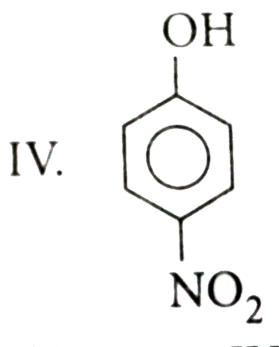
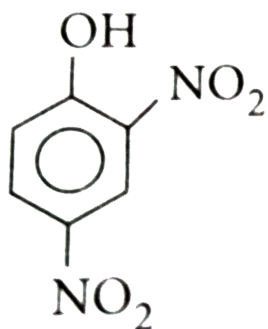
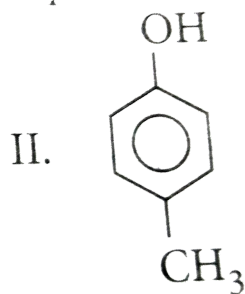
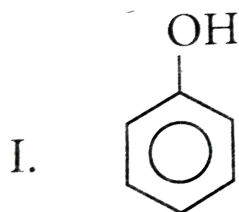
D. greater solubility of the impurity in the
molten state than in the solid.

Answer: D



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31. Strength of acideity is in order



A. II gt I gt III gt IV

B. III gt IV gt I gt II

C. Igt IV gt III gt II

D. IV gt III gt I gt II

Answer: B



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32. Which of the following is paramagnetic as well as coloured ion ?



D. Zn^{2+}

Answer: B



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33. Antiseptic Chloroxylenol is

A. 4-chloro-3, 5- dimethylphenol

B. 3- chloro-4, 5- dimethylphenol

C. 4-chloro-2, 5- dimethylphenol

D. 5-chloro -3, 4- dimethylphenol

Answer: A



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34. PVC is an example of

A. thermosetting

B. thermoplastic

C. elastic

D. fibre.

Answer: B



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35. Order of esterification of alcohols is

A. $3^\circ > 2^\circ > 1^\circ$

B. $2^\circ > 3^\circ > 1^\circ$

C. $1^\circ > 2^\circ > 3^\circ$

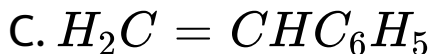
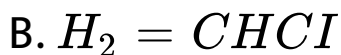
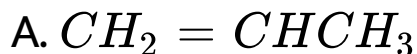
D. none of these.

Answer: C



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36. Which of the following alkenes is the most reactive towards cationic polymerisation ?

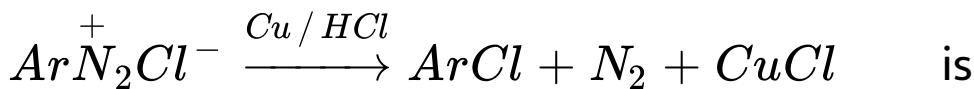


Answer: C



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37. The reaction



named as _____

A. Sandmeyer reaction

B. Gatterman reaction

C. Hofmann bromamide degradation
reaction

D. Carbylamine reaction

Answer: B



38. Latex is a colloidal solution of rubber particles which are

- A. positively charged
- B. negatively charged
- C. neutral
- D. can be negatively and positively charged.

Answer: B



39. In a solid lattice the cation and anion both have left a lattice site. The lattice defect is known as

A. interstitial defect

B. vacancy defect

C. Frenkel defect

D. Schottky defect

Answer: D



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40. Which of the following will not undergo aldol condensation ?

A. Propionaldehyde

B. Acetone

C. Formaldehyde

D. Acetaldehyde

Answer: C



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41. Calculate the ebullioscopic constant for water. The heat of vaporisation is $40.685 \text{ kJ mol}^{-1}$

A. $0.512 \text{ K kg mol}^{-1}$

B. $1.86 \text{ K kg mol}^{-1}$

C. $5.12 \text{ K kg mol}^{-1}$

D. $3.56 \text{ K kg mol}^{-1}$

Answer: A



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42. Which of the following represents the correct order of acidic strength ?

A. HOCl It HOBr It HOI

B. HOCl It HOI It HOBr

C. HOBr It HOI It HOCl

D. HOI It HOBr It HOCl

Answer: D



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43. Which of the following is a fat soluble vitamin ?

A. Vitamin A

B. Vitamin C

C. Pyridoxine

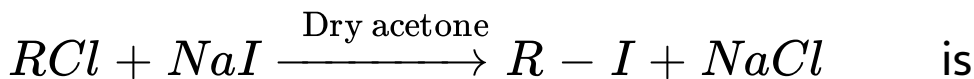
D. Vitamin -B- complex

Answer: A



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44. The reaction ,



known as

- A. Wurtz reaction
- B. Fitting reaction
- C. Wurtz-Fitting reaction
- D. Finkelstein's reaction .

Answer: D



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45. For a first- order reaction, the time required for 99.9% of the reaction to take place is nearly

A. 10 times that required for half the reaction

B. 100 times that required for two-third of the reaction

C. 10 times that required for one- fourth of the reaction

D. 20 times that required for half of the reaction .

Answer: A



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46. Sphalerite and siderite are the ores of the metals

A. Al and Zn

B. Fe and Cu

C. Cu and Zn

D. Fe and Zn

Answer: D



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47. Which of the following is the most impure form of iron ?

A. Bessemer iron

B. Steel

C. Pig iron

D. Wrought iron

Answer: C



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48. The presence or absence of hydroxy group on which carbon atom of sugar differentiates *RNA* and *DNA*.

A. 1st

B. 2nd

C. 3rd

D. 4th

Answer: B



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49. The formulation of dettol contains

A. chloroxyleneol

B. terpineol

C. alcohol

D. All of these

Answer: D



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50. Which of the following does not undergo Hell-Volhard-Zelinsky reaction ?

A. HCOOH

B. CCl_3COOH

C. C_6H_5COOH

D. All of these

Answer: D



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Practice Paper 2

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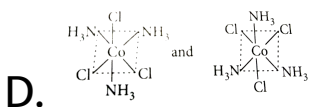
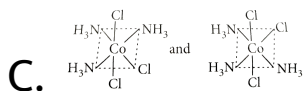
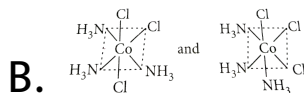
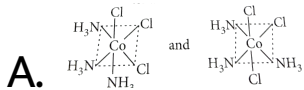
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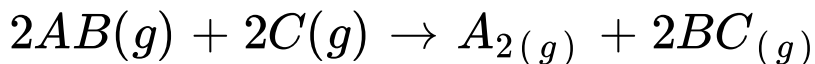
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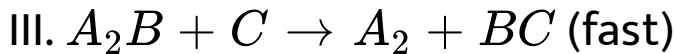
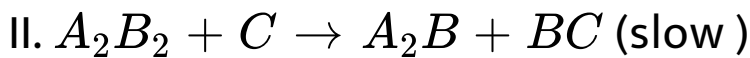
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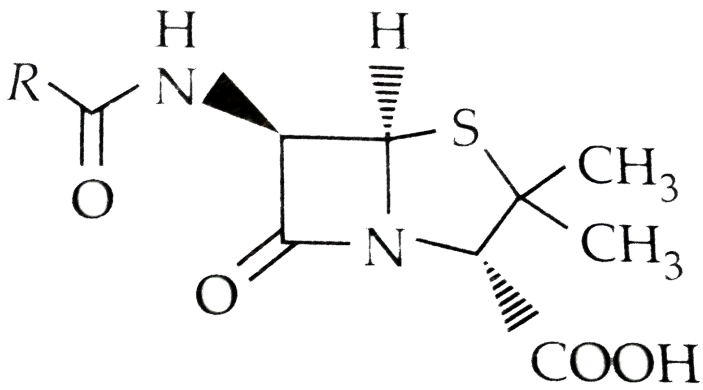
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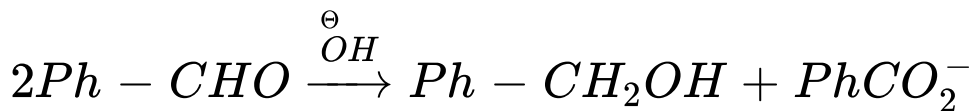
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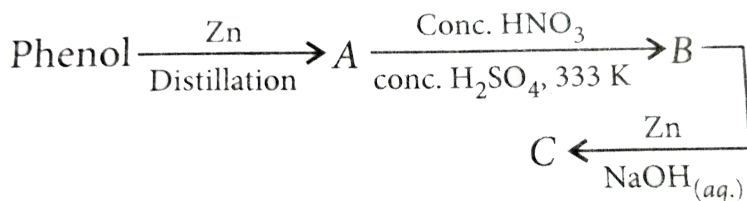
C. HF molecules form intermolecular hydrogen bonding .

D. Fluorine is highly reactive.

Answer: B



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26.

In the above reaction sequence, A , B and C respectively are

A. benzene, nitrobenzene, aniline

B. benzene ,m-dinitrobenzene , m-nitroaniline

C. toluene, m-nitrotoluene, m-toluidine

D. benzene, nitrobenzene, hydrazobenzene.

Answer: D



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27. Four successive members of the first row transition elements are listed below with their atomic number. Which one of them is expected to have the highest third ionisation enthalpy ?

A. Vanadium ($Z = 23$)

B. Manganese ($Z = 25$)

C. Chromium ($Z = 24$)

D. Iron ($Z=26$)

Answer: B



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28. Alcohols of low molecular weight are

A. soluble in water

B. soluble in water on heating

C. insoluble in water

D. insoluble in all solvents.

Answer: A



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29. Which of the following statement are correct ?

(i) Smaller the gold number of lyophilic colloid, larger will be its protective power

(ii) Lyophilic sols , in contrast to lyophobic sols are easily coagulated on addition of small

amounts of electrolytes.

(iii) Ferric chloride solution is used to stop bleeding from a fresh cut because it coagulating the blood

(iv) The flocculation value of arsenious sulphide sol is independent of the anion of the coagulating

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

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

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

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

Answer: B



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30. The method of zone refining of metals is based on the principle of

A. greater mobility of pure metal than that of impurity

B. higher melting point of the impurity than that of pure metal

C. greater noble character of solid metal
than that of impurity

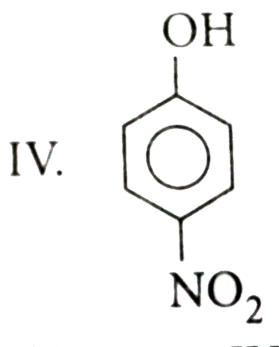
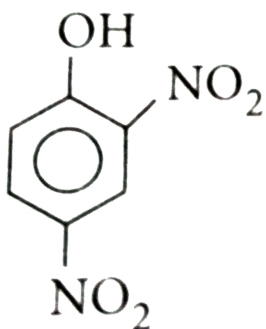
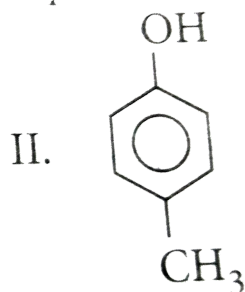
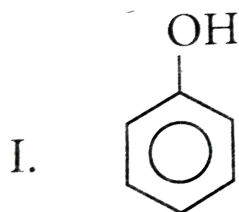
D. greater solubility of the impurity in the
molten state than in the solid.

Answer: D



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31. Strength of acideity is in order



A. II gt I gt III gt IV

B. III gt IV gt I gt II

C. Igt IV gt III gt II

D. IV gt III gt I gt II

Answer: B



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32. Which of the following is paramagnetic as well as coloured ion ?



D. Zn^{2+}

Answer: B



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33. Antiseptic Chloroxylenol is

A. 4-chloro-3, 5- dimethylphenol

B. 3- chloro-4, 5- dimethylphenol

C. 4-chloro-2, 5- dimethylphenol

D. 5-chloro -3, 4- dimethylphenol

Answer: A



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34. PVC is an example of

A. thermosetting

B. thermoplastic

C. elastic

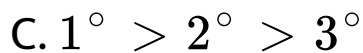
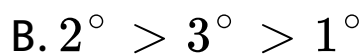
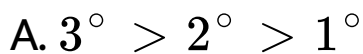
D. fibre.

Answer: B



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35. Order of esterification of alcohols is



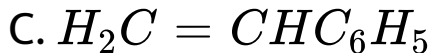
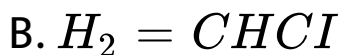
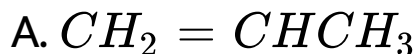
D. none of these.

Answer: C



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36. Which of the following alkenes is the most reactive towards cationic polymerisation ?

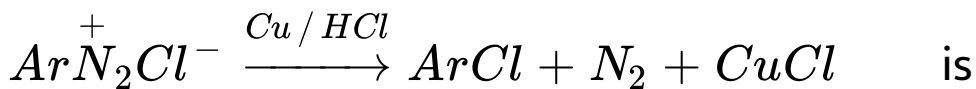


Answer: C



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37. The reaction



named as _____

A. Sandmeyer reaction

B. Gatterman reaction

C. Hofmann bromamide degradation
reaction

D. Carbylamine reaction

Answer: B



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38. Latex is a colloidal solution of rubber particles which are

A. positively charged

B. negatively charged

C. neutral

D. can be negatively and positively charged.

Answer: B



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39. In a solid lattice the cation and anion both have left a lattice site. The lattice defect is known as

A. interstitial defect

B. vacancy defect

C. Frenkel defect

D. Schottky defect

Answer: D



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40. Which of the following will not undergo aldol condensation ?

A. Propionaldehyde

B. Acetone

C. Formaldehyde

D. Acetaldehyde

Answer: C



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41. Calculate the ebullioscopic constant for water. The heat of vaporisation is $40.685 \text{ kJ mol}^{-1}$

A. $0.512 \text{ K kg mol}^{-1}$

B. $1.86 \text{ K kg mol}^{-1}$

C. $5.12 \text{ K kg mol}^{-1}$

D. $3.56 \text{ K kg mol}^{-1}$

Answer: A



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42. Which of the following represents the correct order of acidic strength ?

A. HOCl It HOBr It HOI

B. HOCl It HOI It HOBr

C. HOBr It HOI It HOCl

D. HOI It HOBr It HOCl

Answer: D



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43. Which of the following is a fat soluble vitamin ?

A. Vitamin A

B. Vitamin C

C. Pyridoxine

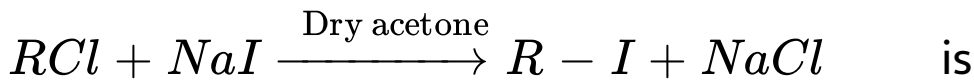
D. Vitamin -B- complex

Answer: A



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44. The reaction _____ ,



known as

- A. Wurtz reaction
- B. Fitting reaction
- C. Wurtz-Fitting reaction
- D. Finkelstein's reaction .

Answer: D



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45. For a first- order reaction, the time required for 99.9% of the reaction to take place is nearly

A. 10 times that required for half the reaction

B. 100 times that required for two-third of the reaction

C. 10 times that required for one- fourth of the reaction

D. 20 times that required for half of the reaction .

Answer: A



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46. Sphalerite and siderite are the ores of the metals

A. Al and Zn

B. Fe and Cu

C. Cu and Zn

D. Fe and Zn

Answer: D



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47. Which of the following is the most impure form of iron ?

A. Bessemer iron

B. Steel

C. Pig iron

D. Wrought iron

Answer: C



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48. The presence or absence of hydroxy group on which carbon atom of sugar differentiates *RNA* and *DNA*.

A. 1st

B. 2nd

C. 3rd

D. 4th

Answer: B



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49. The formulation of dettol contains

A. chloroxylenol

B. terpineol

C. alcohol

D. All of these

Answer: D



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50. Which of the following does not undergo Hell-Volhard-Zelinsky reaction ?

A. HCOOH

B. CCl_3COOH

c. C_6H_5COOH

D. All of these

Answer: D



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