



CHEMISTRY

NTA MOCK TESTS ENGLISH

NTA NEET SET 42

Chemistry

1. Which of the following cannot behave like a Lewis acid ?

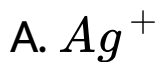


Answer: A



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2. Which of the following cannot give iodometric titrations?

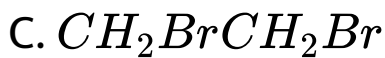
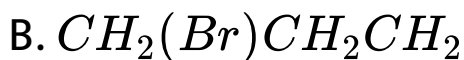
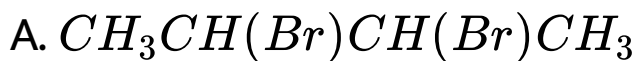


Answer: C



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3. Which of the following is known as gem - dibromide ?



Answer: D



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4. Potassium is involved in

A. Water

B. Kerosene

C. Alcohol

D. Liquid ammonia

Answer: B



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5. Colloidal solution of which of the following cannot be prepared by Breiding's arc method?

A. Pt

B. Au

C. Ag

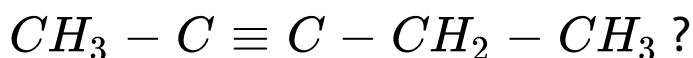
D. Fe

Answer: D



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6. Which set of reagents are needed to synthesize the given unsymmetrical alkyne



A. Acetaldehyde , 1 - bromopropane and conc.



B. Ethyne , iodomethane , iodoethane and
sodamide

C. 1,2 - dichloroethane , 1 - propanol and
alcoholic potassium hydroxide

D. Ethene , iodoethane , iodomethane and
potassium hydroxide

Answer: B



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7. Give evidence that $[Co(NH_3)_5Cl]SO_4$ and $[Co(NH_3)_5SO_4]Cl$ are ionization isomers.

A. Linkage

B. Geometrical

C. Ionization

D. Optical

Answer: C



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8. Which reagent used to test unsaturation of alkenes ?

A. conc . H_2SO_4

B. Solution of Br_2 in CCl_4

C. Ammonical Cu_2Cl_2

D. Ammonical $AgNO_3$

Answer: B



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9. The compound which does not give iodoform on treatment with NaOH and iodine is

A. Diethyl ketone

B. Acetone

C. Ethanol

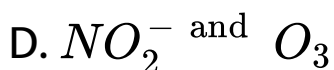
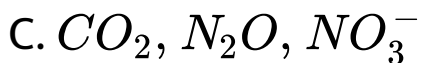
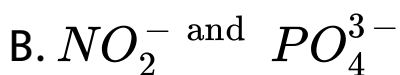
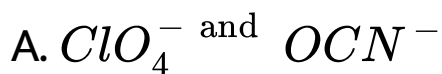
D. Isopropyl alcohol

Answer: A



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10. An isostere is

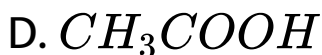
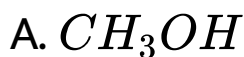


Answer: D



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11. The reaction of , water gas
($CO + H_2$) + H_2 at 673 K, 300 atmosphere in
presence of the catalyst Cr_3O_3 / ZnO is used
for the manufacture of

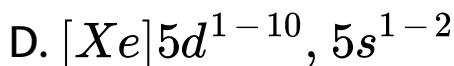
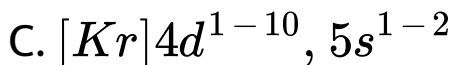
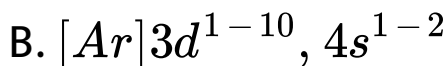
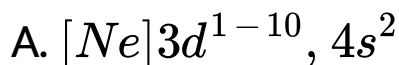


Answer: A



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12. What is the general electronic configuration for second row transition series

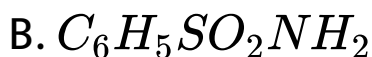
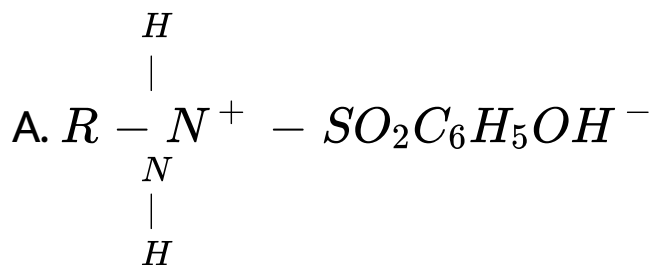


Answer: C



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13. RNH_2 reacts with $C_6H_5SO_2Cl$ in aqueous KOH to give a clear solution. On acidification a precipitate is obtained which is due to the formation of



Answer: D



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14. Which species in the given below has a coordinated bond ?



Answer: B



15. What will be the major product when m-cresol is reacted with propargyl bromide ($HC \equiv C - CH_2Br$) in Presence of K_2CO_3 in acetone?

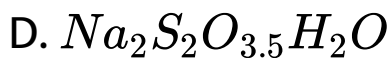
- A. Sodium metal
- B. Conc . H_2SO_4
- C. Sodium acetate
- D. Anhydrous $ZnCl_2$

Answer: C



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16. The chemical formula of chile salt petre is _____ .



Answer: A



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17. The freshly prepared solution of sugar undergoes change in optical rotation, with time, is known as

- A. Inversion
- B. Specific rotation
- C. Rotatory motion
- D. Mutarotation

Answer: D



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18. Calculate molarity of the resultant solution obtained by mixing 1 M and 2 .5 liter NaOH solution and 0.5 M 3 liter NaOH solution .

A. 0.50 M

B. 0.73 M

C. 0.80 M

D. 1.0 M

Answer: B



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19. Electrolytic refining is used to purify which of the following metals?

A. Cu and Zn

B. Ge and Si

C. Zr and Ti

D. Zn and Hg

Answer: A



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20. In which of the following crystals, alternate tetrahedral voids are occupied?



Answer: B



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21. Which of the following drugs is an analgesic?

A. Penicillin

B. Paludrin

C. Sulphaguanidine

D. Analgin

Answer: D



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22. By adding which of the following process, permanent hardness of water can be removed.

A. Sodium bicarbonate

B. Sodium chloride

C. Washing soda

D. Sodalime

Answer: C



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23. Which statement of the following is incorrect for gases ?

A. Volume of the gas is equal to the volume of the container confining the gas

B. Confined gas exerts uniform pressure on the walls of its container in all directions

C. Gases do not have a definite shape and volume

D. Mass of the gas cannot be determined by weighing a container in which it is enclosed

Answer: D



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24. Which of the following will exhibit geometrical isomerism?

A. Propene

B. Butene - 2

C. Butene - 1

D. 1, 1 - dichloro butane

Answer: B



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25. The following equilibrium exists in aqueous solution : $CH_3COOH \rightarrow H^+ + CH_3COO^-$

If dilute HCl is added :

A. The equilibrium constant will increase

B. The equilibrium constant will decrease

C. Concentration of CH_3COO^- will decrease

D. Concentration of CH_3COO^- will increase

Answer: C



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26. For the reaction of one mole of zinc dust with one mole of sulphuric acid in a bomb calorimeter, ΔU and w corresponds to

A. $\Delta U < 0, w = 0$

B. $\Delta U > 0, w = 0$

C. $\Delta U = 0, w < 0$

D. $\Delta U < 0, w > 0$

Answer: A



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27. The rate of a non - geseous reaction does not dependent on

A. Catalyst

B. Pressure

C. Concentration of CH_3COO^- will decrease

D. Temperate

Answer: B



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28. In the cell, $Zn || Zn^{2+} || Cu^{2+} | Cu$, the negative terminal is

A. Zn^{2+}

B. Cu^{2+}

C. Zn

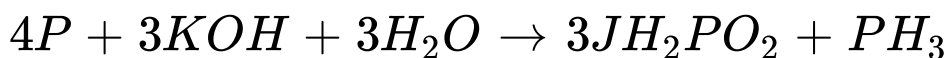
D. Cu

Answer: C



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29. In the following reaction correct change in phosphorus is explained by ,



A. P is oxidized as well as reduced

B. P is oxidized only

C. P is reduced only

D. None of these

Answer: A



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30. What is the oxidising agent in chlorine water ?

A. HCl

B. HClO_2

C. HOCl

D. None of these

Answer: C



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31. Activated charcoal is used to remove colouring matter from pure substances. It works by :

A. Bleaching

B. Reduction

C. Oxidation

D. Adsorption

Answer: D



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32. P_2O_5 is heated with water to give

- A. Hypophosphorus acid
- B. Hypophosphoric acid
- C. Orthophosphoric acid
- D. Orthophosphorus acid

Answer: C



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33. One electron species having ionization energy of 54.4eV is



Answer: A



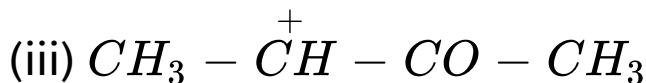
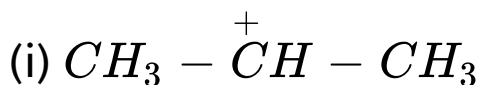
34. The structure of compound, which is formed by sp^3d hybridization will be

- A. Angular
- B. Planar
- C. Pyramidal
- D. Trigonal bipyramidal

Answer: D



35. Arrange following carbocation in the decreasing order of stability



A. $(iii) > (ii) > (i)$

B. $(i) > (ii) > (iii)$

C. $(i) > (ii) > (iii)$

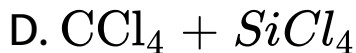
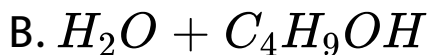
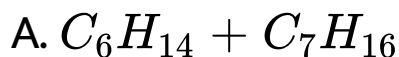
D. $(i) < (ii) < (iii)$

Answer: C



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36. Which is not an example of an ideal solution ?

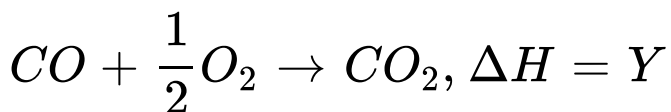


Answer: B



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37. Calculate the heat of formation of CO using given equations



A. $X - Y$

B. $X + Y$

C. $Y - 2X$

D. $2X - Y$

Answer: A



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38. Calculate the standard potential of the cell
If the standard electrode potentials of
 Zn^{2+} / Zn and Ag^{+} / Ag are -0.763 V and $+0.799\text{ V}$ respectively .

A. 0.036 V

B. 1.56 V

C. $-1.562V$

D. 0.799V

Answer: B



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39. The total number of structural ethers possible with the molecular formula $C_5H_{12}O$?

A. 4

B. 5

C. 6

D. 7

Answer: C

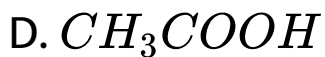
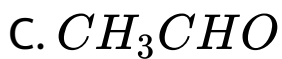


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40. What is vinegar?

A. HCOOH

B. HCHO



Answer: D



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

A. Silk

B. Nylon - 6 , 6

C. Dacron

D. All of these

Answer: D



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42. The gas A is bubbled through lime water , a while precipitate is formed . This precipitate dissolved on prolonged bubbling the same gas. On heating this solution, the white

precipitate reappears with the evolution of gas B . The gases A and B respectively are

A. CO and CO_2

B. CO_2 and CO

C. CO and CO

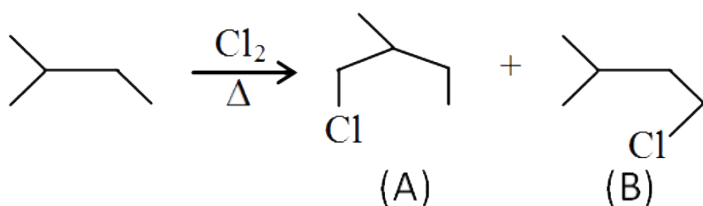
D. CO_2 and CO_2

Answer: D



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43. If the reactivity factor for chlorine substitution through free radical by abstracting a primary H - atom is 1 then the ratio of the amount of product A and B is -



A. 1 : 1

B. 1 : 2

C. 2 : 1

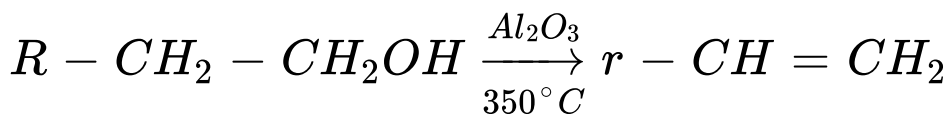
D. 3 : 1

Answer: C

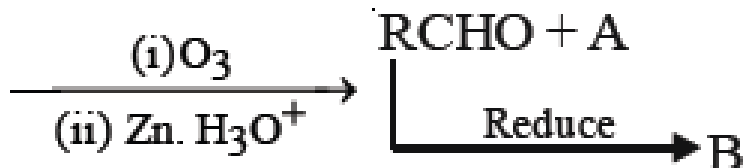


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44. The missing structures A and B in the reaction sequence :



are given by the set :



A. CH_3OH , $RCOOH$

B. Methanal , RCH_2OH

C. Ethanal , $RCOOH$

D. Methanal , $RCHOHR$

Answer: B



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