



CHEMISTRY

BOOKS - FULL MARKS CHEMISTRY (TAMIL ENGLISH)

SAMPLE PAPER 17 (UNSOLVED)

Part I

1. What is the mass of precipitate formed when 50 ml of 8.5% solution of $AgNO_3$ is mixed with

100 ml of 1.865% potassium chloride solution?

A. 3.59 g

B. 7 g

C. 14 g

D. 28 g

Answer: A



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2. How many electrons in an atom with atomic number 105 can have $(n + 1) = 8$?

A. 30

B. 17

C. 15

D. unpredictable

Answer: B



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3. The electronic configuration of the elements A and B are $1s^2, 2s^2, 2p^6, 3s^2$ and $1s^2, 2s^2, 2p^5$, respectively. The formula of the ionic

compound that can be formed between these elements is

A. AB

B. AB_2

C. A_2B

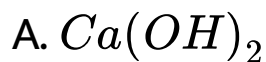
D. none of the above

Answer: B



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4. Which one of the following is used in purification of sugar and as drying agent ?



Answer: D



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5. Four gases P, Q , R and S have almost same values of 'b' but their 'a' values (a,b are Van der Waals Constants) are in the order $Q < R < S < P$. At a particular temperature, among the four gases the most liquifiable one is

A. P

B. Q

C. R

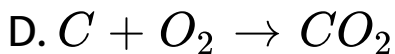
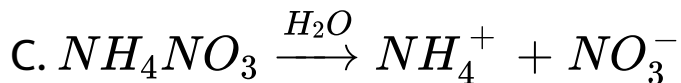
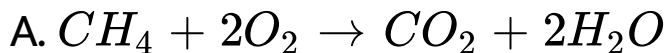
D. S

Answer: A



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6. Which one of the following is an endothermic process ?



Answer: C



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7. If K_b and K_f for a reversible reactions are 0.8×10^{-5} and 1.6×10^{-4} respectively , the value of the equilibrium constant is

A. 20

B. 0.2×10^{-1}

C. 0.05

D. None of these

Answer: A



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8. Which one of the following binary liquid mixtures exhibits positive deviation from Raoult's law ?

A. Acetone + Chloroform

B. Water + nitric acid

C. HCl + water

D. ethanol + water

Answer: D



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9. Among the following the compound that contains , ionic, covalent and coordinate linkage is



Answer: A



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10. Identify the colour formed in the test for phosphorous using ammonium molybdate .

- A. Crimson red colour
- B. Deep violet colour
- C. Prussian blue colour
- D. Canary yellow colour

Answer: D



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11. 4-hydroxyl phenol reacts with acidified potassium dichromate to give

A. quinol

B. cyclohexanone

C. phenol

D. P-Benzoquinone

Answer: D



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12. Consider the following statements.

(i) The process of reduction using sodium in liquid ammonia is called as Birch reduction.

(ii) Birch reduction is stereospecific in reaction.

(iii) Alkynes can be reduced to cis-alkenes using Birch reduction

Which of the above statement is/are correct ?

A. (i) and (ii)

B. (ii) and (iii)

C. (iii) only

D. (ii) only

Answer: A



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13. The reactivity of alcohols with halo acid is

..... .

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

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

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

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

Answer: A



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14. Coal miners may suffer from

A. Tuberculosis

B. Black lung disease

C. White lung disease

D. Malaria

Answer: B



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Part II

1. Which ion has the stable electronic configuration? Ni^{2+} or Fe^{3+} .



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2. BeO is covalent where as MgO is ionic. Why?



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3. What is meant by Joule-Thomson effect?



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4. Define - molar heat of sublimation.



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5. Applying VSEPR theory, how to predict the shape of IF_7 ?



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6. What are all the conditions for optical isomerism?



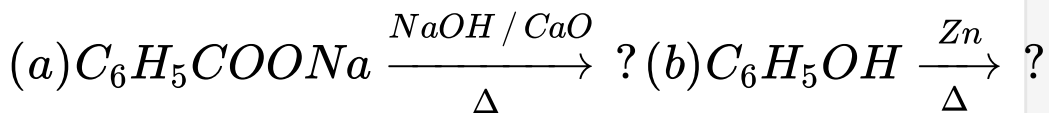
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7. List out the source of human body that produces free radicals.



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8. Complete the following reaction,



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9. What is weed killers ? Give an example .





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