

## **CHEMISTRY**

# **BOOKS - SHARAM PUBLICATION**

# **2012 QUESTION PAPER**

## Exercise

**1.** pH of 0.001(M)NaOH solution is

A. 3

B. 7

C. 11

D. 14

#### Answer:



washiyada a cabatan

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2. For an unstable nucleus
A. n/p ratio is high
B. Binding energy is low
C. Packing fraction is +ve
D. all of the above
Answer:  Watch Video Solution
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Watch Video Solution
Watch Video Solution  3. Which one of the following is the ore of copper?
Watch Video Solution  3. Which one of the following is the ore of copper?  A. Dolomite

D. Hematite
Answer:
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4. Which of the following is an insecticide?
A. Dettol
B. Aspirin
C. Aldrin
D. Zinc Phosphide
A
Answer:
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**5.** The solubility of  $CaF_2$  in water is 's' moles per litre, its solubility product is

A. 3s

 $\mathsf{B.}\ 2s^2$ 

 $\mathsf{C.}\,4s^3$ 

D.  $4s^2$ 

#### Answer:



6. Which of the following compound will nor react with ammoniacal

 $AgNO_3$  solution ?

A. Acetylene

B. Acetone

C. Acetaldehyde

D. Formic acid
Answer:
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7. In the upper layer of the atmosphere, ozone is formed by the:
A. By combination of oxygen
B. By high pressure on oxygen
C. By action of electric discharge on oxygen
D.
Answer:
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8. The unit of entropy are:

A.  $JK^{-1}mo \leq^{-1}$ 

B.  $KJ^{-1}$  mole^-1`

C.  $JK^{-1}mo <$ 

D.  $KJmol^{-1}$ 

# **Answer:**



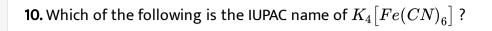
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- 9. Electrophilic substitution reaction in benzaldehyde takes place at
  - A. o-position
  - B. p-position
  - C. m-position
  - D. o and p position

# Answer:



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- A. Potassium ferricyanide
- B. Potassium ferrocyanide
- C. Potassium hexocyanoferrate
- D. Potassium hexacyanoferrate

#### **Answer:**



**11.** Fill in the blanks: The half life period of a radioactive substance is 69.3 years. The disintegration constant is ............



12. Nylon 6,6 is prepared by the condensation of and
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<b>13.</b> The transition elements are paramagnetic due to the presence of
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<b>14.</b> Fill in the blanks : The name of electrophile used for the sulphonation
of benzene is
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<b>15.</b> In the electrochemical cell, oxidation takes place at
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<b>16.</b> Which of the following attacks glass ?
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17. What is the value of change in entropy at equilibrium?
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<b>18.</b> Give the relationship between chemical equivalent and electrochemical equivalent of an element?
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<b>19.</b> Write the name of two antibiotic drugs.
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20. Why is the solution containing sodium acetate and acetic acid called a buffer solution ?

and  $E^0Cd^{2\,+}$   $/Cd=\,-\,0.40$  volt



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22. Why hydrofluoric acid is the weakest of all the halogen acids?



**24.** Discuss the principle of manufacture of sulphuric acid by contact process. Why is  $H_2S$  not dried over concentrated  $H_2SO_4$ ?

How does concentrated  $H_2SO_4$  react with (i) copper and (ii) sugar?



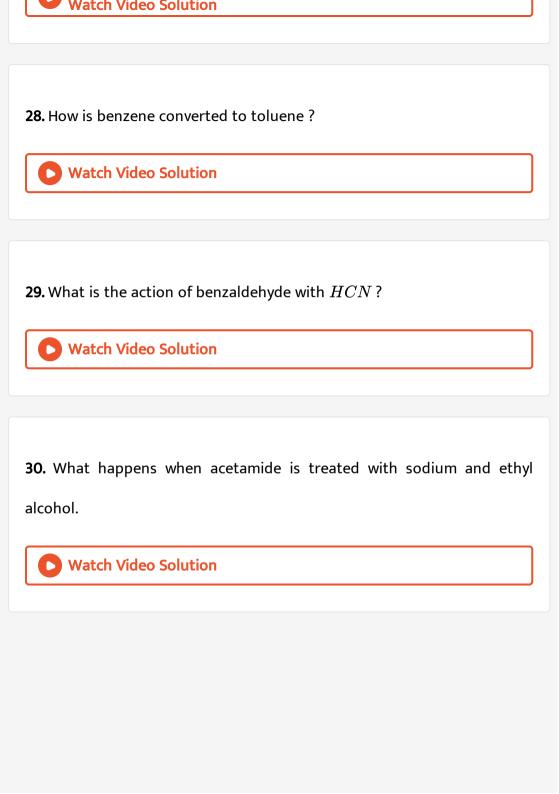
**25.** What happens when  $SnCl_2$  solution is added to  $CuCl_2$  solution?



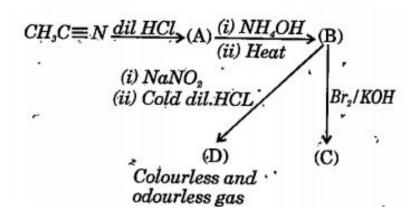
**26.** Sodium acetate solution is alkaline. Give reason.



**27.** State Kohlrausch's law. Discuss with an example .



31. Identify A, B, C and D.



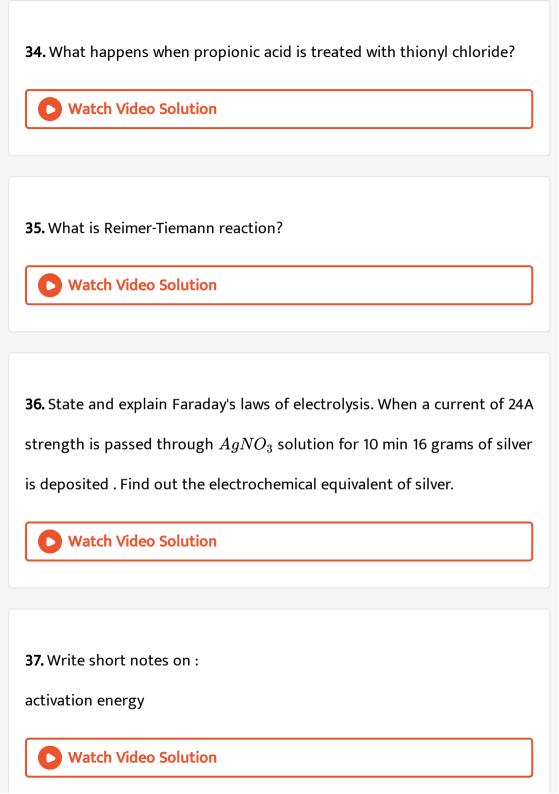


**32.** Why aniline is less basic than methyl amine?



33. What are organometallic compounds? Give two examples.





**38.** Write notes on: Hess's law of constant heat of summation.



**39.** What is carbon dating ? Explain. In a sample of wood C-14 activity is 10% of the activity found in fresh wood. Calculate the age of wood sample.  $\left(\frac{t_1}{2}\right)$  for C-14 is 5760 years )`



 ${\bf 40.}$  Justify the position of boble gases in the periodic table .



**41.** How is acetic acid prepared from

 $CH_3CH_2OH$ 



42. How is acetic acid prepared from

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43. How is acetic acid prepared from

 $CH_3COOC_2H_5$ 

 $CH_3MgBr$ ?

Give equation.



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**44.** Write one reaction to distinguish between formic acid and acetic acid.



**46.** How is benzene diazonium chloride prepared from aniline? How are the following compounds prepared from it?



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