

CHEMISTRY

BOOKS - MODERN PUBLICATION

SAMPLE PAPER 2012

Exercise

1. What is the value of change in entropy at equilibrium?

A. 3

B. 7

C. 11

D. 14

Answer:



ward wall a calculation

watch video Solution
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:
Answer: Watch Video Solution
Watch Video Solution
Watch Video Solution 3. Which of the following is an ore of copper?
Watch Video Solution 3. Which of the following is an ore of copper? A. Dolomite

D. Hematite
Answer: A::C
Watch Video Solution
4. Which of the following is an insecticide ?
A. Dettol
B. Aspirin
C. Aldrin
D. Zinc Phosphide
Answer: A::D
Watch Video Solution

5. The solubility of CaF_2 in water is 's' moles per litre, its solubility product is

A. 3s

B. 2s^2

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

Answer: A::C
Watch Video Solution
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. By action of UV rays on oxygen
Answer:
Watch Video Solution
8. The unit of entropy are:

D. Formic acid

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

B. $KJ^{-1}mo \leq^{-1}$

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

D. $KJmo <^{-1}$

Answer:



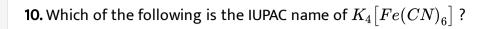
Watch Video Solution

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



Answer:

Watch Video Solution



- A. Potassium ferricyanide
- B. Potassium ferrocyanide
- C. Potassium hexocyanide (III)
- D. Potassium hexacyanoferrate (II)

Answer: A::C



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
Watch Video Solution
13. The transition elements are paramagnetic due to the presence of
Watch Video Solution
14. Fill in the blanks : The name of electrophile used for the sulphonation
of benzene is
Watch Video Solution
15. In the electrochemical cell, oxidation takes place at
Watch Video Solution

16. Which halogen acid does attack glass?



Watch Video Solution

17. What is the value of change in entropy at equilibrium?



Watch Video Solution

18. Write the IUPAC name of the following compund

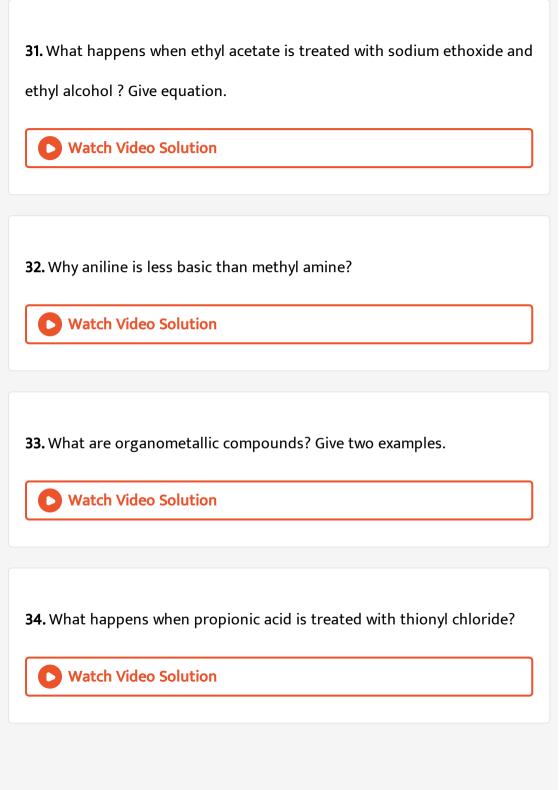


Watch Video Solution

19. Give the relationship between chemical equivalent and electrochemical equivalent of an element?
Watch Video Solution
20. Write the name of two antibiotic drugs.
Watch Video Solution
21. Why is the solution containing sodium acetate and acetic acid called a buffer solution ?
Watch Video Solution
22. Represent the cell and calculate the Standard e.m.f. of the cell having
following cell reaction:

 $2Cr(s) + 3Cd^{2+}(aq)
ightarrow 2Cr^{3+}(aq) + 3Cd(s)E^0Cr^{3+} \, / Cr = \, -0.73vo < 0.000$ and $E^0Cd^{2\,+}$ $/Cd=\,-\,0.40$ volt Watch Video Solution 23. Why hydrofluoric acid is the weakest of all the halogen acids? **Watch Video Solution** 24. What is the action of ozone with lead sulphide? Give equation. Watch Video Solution **25.** H_2S cannot be dried by passing over conc. H_2SO_4 because: **Watch Video Solution 26.** What happens when $SnCl_2$ solution is added to $CuCl_2$ solution?

Watch Video Solution
27. Sodium acetate solution is alkaline. Give reason.
Watch Video Solution
28. State Kohlrausch's law.
Watch Video Solution
29. How is benzene converted to toluene ?
Watch Video Solution
30. What is the action of benzaldehyde with HCN ?
Watch Video Solution



35. What is Riemer-Tiemann reaction? Give equation.



Watch Video Solution

36. State and explain Faraday's laws of electrolysis. When a current of 24A strength is passed through $AgNO_3$ solution for 10 min 16 grams of silver is deposited . Find out the electrochemical equivalent of silver.



Watch Video Solution

37. Write short notes on :

activation energy



Watch Video Solution

38. 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. $\left(\frac{t_1}{2} \text{ for C-14 is 5760 years }\right)$ **Watch Video Solution** 39. Justify the position of boble gases in the periodic table. **Watch Video Solution** 40. Discuss one method of preparation and the structure of the following compounds. (a) XeF_2 (b) XeF_4 **Watch Video Solution 41.** How is acetic acid prepared from (i) $CH_3CH_2OH(ii)CH_3COOC_2H_5$ and (iii) CH_3MgBr **Watch Video Solution**

42. Write one reaction to distinguish between formic acid and acetic acid. Give equation.



Watch Video Solution

43. What happens when sodium benzoate is heated with soalime?



Watch Video Solution

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

(i) Benzene (ii) Phenol (iii) Iodobenzene (iv) Phenylcyanide.



Watch Video Solution