



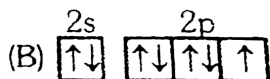
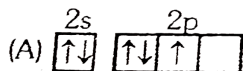
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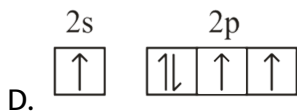
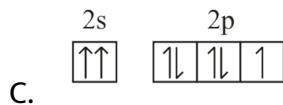
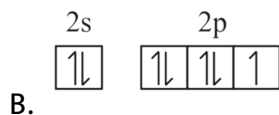
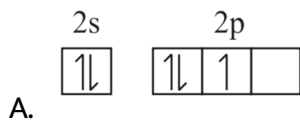
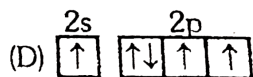
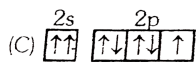
BOOKS - NTA MOCK TESTS

NTA NEET SET 89

Chemistry

1. Which of the following violates the Aufbau principal?

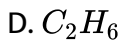
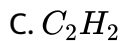
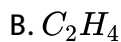
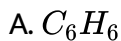




Answer: D

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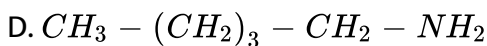
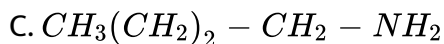
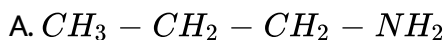
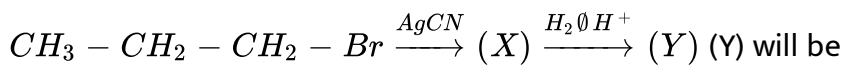
2. Which of the following has shortest carbon-carbon bond length ?



Answer: C

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3. In the reaction sequence

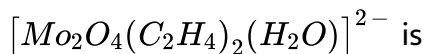


Answer: A



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4. The oxidising state of molybdenum in its oxo complex species



A. 1

B. 3

C. 4

D. 2

Answer: B



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5. When a standard solution of NaOH is left in air for a few hours:

A. a precipitate will form

B. strength of solution will decrease

C. the strength of solution will increase

D. the concentration of Na^+ ion in solution will remains same

Answer: B

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6. Out of these the correct match is

A. Bayer's method – Na_2CO_3

B. Matte - 98% Cu_2S + 2% FeS

C. van Arkel method - AgI

D. Thoms slag - Raw material for cement industry

Answer: B

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7. A bottle of cold drink has 200 mL liquid in which CO_2 is 0.1 molar. If CO_2 behaves as ideal gas the volume of CO_2 at S.T.P. solution of cold drink is

- A. 0.224 litre
- B. 0.448 litre
- C. 22.4 litre
- D. 2.24 litre

Answer: B



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8. Which among the following reagents convert alkyl halide into alkane ?

- A. Bu_3SnH
- B. Na/dry ether
- C. R_2CuLi

D. All of these

Answer: D

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9. Which of the following is correct statement ?

A. F_2 has higher dissociation energy than Cl_2

B. F has higher electron affinity than Cl

C. HF is stronger acid than HCl

D. Boiling point increases down the group in halogens

Answer: D

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10. Equivalent mass of $KMnO_4$ in acidic basic and neutral are in the ratio, of:

A. 3 : 5 : 15

B. 5 : 3 : 1

C. 5 : 1 : 3

D. 3 : 15 : 5

Answer: D



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11. $AgCl$ on fusion with sodium carbonate, gives :

A. Ag_2CO_3

B. Ag_2O

C. Ag

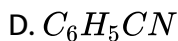
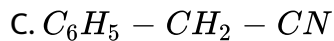
D. Ag_2C_2

Answer: C

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12. In the given reaction $C_6H_5CH_2COOH \xrightarrow[(ii) P_2O_5]{(i) NH_3 / \Delta} (X)$

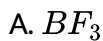
(X) will be



Answer: C

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13. Which of the following compound does not give oxyacid of central atom on hydrolysis?

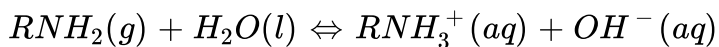


Answer: B



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14. The equilibrium constant for the ionization of RNH_2 (g) in water as



is 8×10^{-6} at $25^\circ C$. find the pH of a solution at equilibrium when pressure of $RNH_2(g)$ is 0.5 bar :

A. 2.7

B. 4.7

C. 3.7

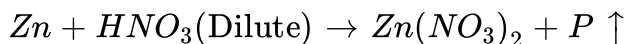
D. 5.7

Answer: A



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15. Consider the following reaction and select incorrect statement about gas (P):



- A. Gives neutral solution in water
- B. Contains more O_2 than air
- C. Forms brown ring with $FeSO_4$ solution
- D. None of these

Answer: C



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16. Conversion of isobutene into isobutyl alcohol can be possible with

A. HOH / H^{\oplus}

B. BH_3 followed by $H_2O_2 / \bar{O}H$

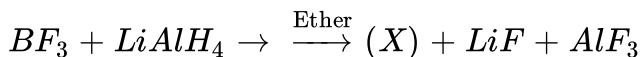
C. Conc. H_2SO_4 followed by HOH

D. All of these

Answer: B

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17. The incorrect statement regarding 'X' in given reaction is:



A. Twelve electrons are involved in bonding

B. Four, two centre- two electron bonds

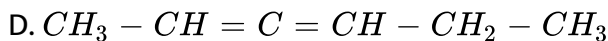
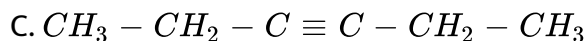
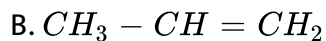
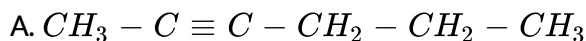
C. Two, three centre - two electron bonds

D. X does not react with NH_3

Answer: D

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18. In the reaction
 $CH_3 - C \equiv C - H \xrightarrow{(i) NaNH_2 / NH_3(l)} (A) \xrightarrow{CH_3 - CH_2 - CH_2 - Br} (B)$ The product B is



Answer: A

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19. One mole of methanol when burnt in O_2 , gives out 723 kJ mol^{-1} of heat. If one mole of O_2 is used, what will be the amount of heat evolved?

A. 723 J

B. 482 kJ

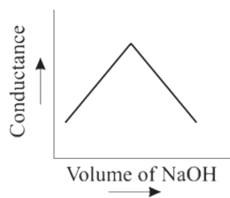
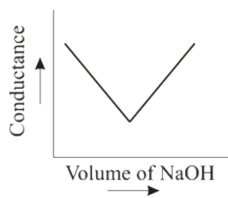
C. 964 kJ

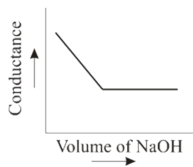
D. 289.2 kJ

Answer: B

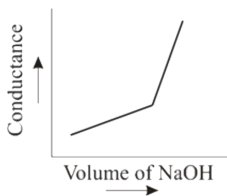
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20. When HCl (aq) is titrated with NaOH(aq) conductometrically then the graphical representation of the titration will be





C.



D.

Answer: A



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21. Which of the following effects are possible in ortho nitrophenol

- A. $-I$ effect
- B. $-R$ (mesoeric) effect
- C. Intermolecular H - bonding
- D. All of these

Answer: D



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22. Angular momentum is

- A. wave number
- B. energy
- C. Plank constant
- D. linear momentum

Answer: C



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23. The stability of particular oxidation state of a metal in aqueous solution is determined by

- A. Enthalpy of sublimation of the metal
- B. Ionization energy

C. Enthalpy of hydration of the metal ion

D. All of these

Answer: D

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24. Insulin is dissolved in suitable solvent and the osmotic pressure (π) of solution of various concentration (g/cm^3) C is measured at $27^\circ C$. The slope of plot of π against C is found to be 4.1×10^{-3} . The molecular mass of inulin is:

A. 3×10^3

B. 6×10^6

C. 3×10^6

D. 6×10^3

Answer: B

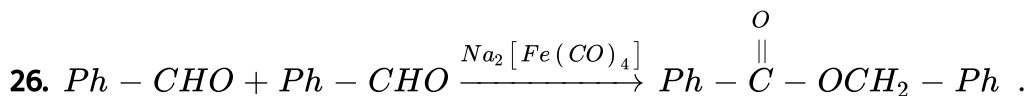
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25. Two isomeric Ketones, 3-pentanone and 2-pentanone can be distinguished by:

- A. $I_2 / NaOH$ only
- B. $NaSO_3H$ only
- C. $NaCN/HCl$
- D. Both A and B

Answer: D

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This reaction is known as :

- A. Claisen reaction

B. Tischenko reaction

C. Perkin reaction

D. Cannizzaro reaction

Answer: B

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27. Depletion of ozone layer causes

A. Oxides of nitrogen

B. Oxides of carbon

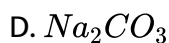
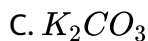
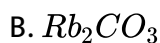
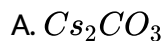
C. Oxides of sulphur

D. None of the above

Answer: A

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28. Among the carbonates of alkali metals which one has highest thermal stability ?

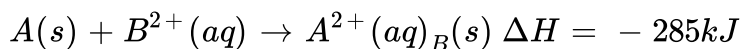


Answer: A



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29. The efficiency of a hypothetical cell is about 84 % which involves the following reactions:



Then, the standard electrode potential of the cell will be: (Assume $\Delta S = 0$)

A. 1.20V

B. 2.40 V

C. 1.10 V

D. 1.24 V

Answer: D



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30. An acid solution of $pH = 6$ is diluted 1000 times, the pH of the final solution is

A. 6.95

B. 4

C. 6

D. 9

Answer: A

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31. The number of aromatic structures possible for the molecular formula C_7H_8O is

A. 2

B. 3

C. 4

D. 5

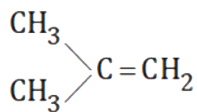
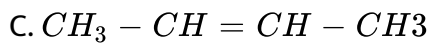
Answer: D

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32. Which of the following alkenes is the most stable ?

A. $CH_2 = CH_2$

B. $CH_3 - CH = CH_2$



D.

Answer: D

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33. During micelle formation :

A. $\Delta H = +ve, \Delta S = +ve$

B. $\Delta H = -ve, \Delta S = -ve$

C. $\Delta H = -ve, \Delta S = +ve$


D. $\Delta H = +ve, \Delta S = -ve$

Answer: D

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34. The graph between $\log t_{1/2}$ and $\log a$ at a given temperature is

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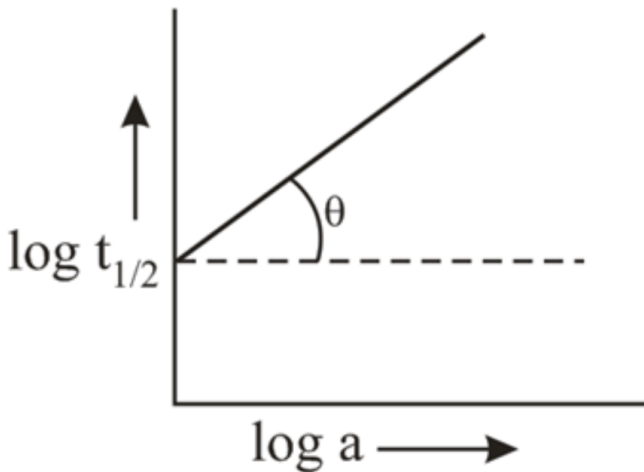
Physics

Chemistry

Biology

Q.34 Single Choice

The graph between $\log t_{1/2}$ and $\log a$ at a given temperature is



Rate of this reaction will with passage of time

A increase

B decrease

C remains constant



Review Later

Clear

Save and Next



Rate of this reaction willwith passage of time

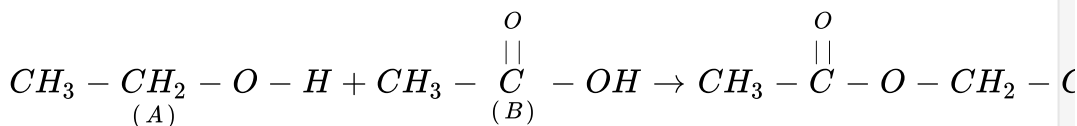
- A. increase
- B. decrease
- C. remains constant
- D. first increase then decrease

Answer: C



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35. Consider the following reaction



In the above reaction ester formation takes place by

A. Breaking of O - H bond of A and O - H bond of B

B. Breaking of C - O bond of A and C - O bond of B

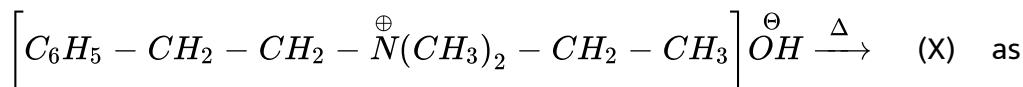
C. Breaking of O - H bond of A and C - O bond of B

D. Breaking of C - O bond of A and O - H bond of B

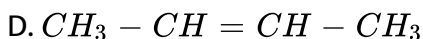
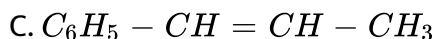
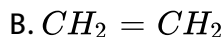
Answer: C

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36. In the given reaction



major product will be



Answer: B

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37. Select correct statement for $Cr. 6NH_3. Cl_3$ and $Cr. 5NH_2. Cl_3$

A. In both complex compounds secondary valency is satisfied by only



B. In both complex compounds Cl^- are satisfying only primary

valency

C. In both complex compounds primary valency is satisfied by only

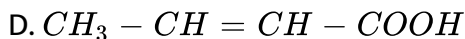
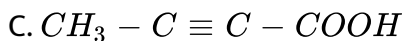
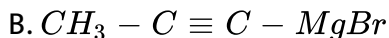
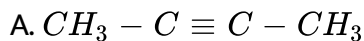
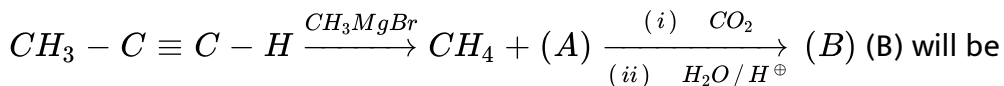


D. In both complex compounds all Cl^- are ionizable

Answer: C

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38. In the reaction

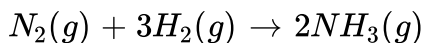


Answer: C



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39. In the Haber's process of ammonia manufacture,



the rate of appearance of NH_3 is :

$$\frac{d[NH_3]}{dt} = 2 \times 10^{-4} \text{ mol L}^{-1} \text{ sec}^{-1}$$

The rates of the reaction expressed in terms of N_2 and H_2 will be :

	Rates in terms of H_2 ($\text{mol L}^{-1} \text{sec}^{-1}$)	Rates in terms of N_2 ($\text{mol L}^{-1} \text{sec}^{-1}$)
(a)	3×10^{-4}	2×10^{-4}
(b)	3×10^{-4}	1×10^{-4}
(c)	1×10^{-4}	3×10^{-4}
(d)	2×10^{-4}	2×10^{-4}

A. 3×10^{-4} 2×10^{-4}

B. 3×10^{-4} 1×10^{-4}

C. 1×10^{-4} 3×10^{-4}

D. 2×10^{-4} 2×10^{-4}

Answer: B

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40. The period number and group number of "Tantalum" ($Z=73$) are respectively:

A. 5,7

B. 6,13

C. 6,5

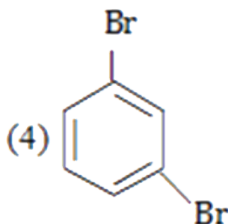
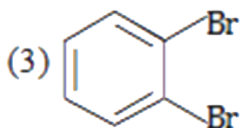
D. None of these

Answer: C

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41. Which of the following will not form Grignard reagent with Mg/dry ether ?

(1) $CH_2Br - CH_2Br$ (2) $CH_2Br - CH_2 - CH_2Br$



Select the correct answer using the codes gives below

A. Only (4)

B. Only (2)

C. 1,2,and 3

D. 1,2,3 and 4

Answer: C

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42. A certain sample of cuprous sulphide is found to have composition $Cu_{1.8}S$, because of incorporation of Cu^{2+} ion in the lattice, What is the mole % of Cu^{2+} in total content in this crystal?

A. 88.88

B. 11.11

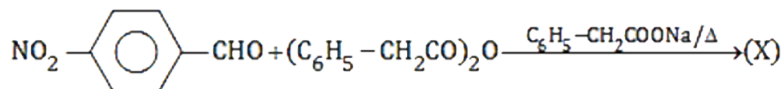
C. 99.8

D. 89.8

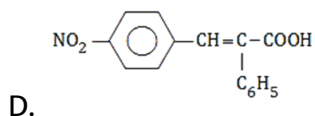
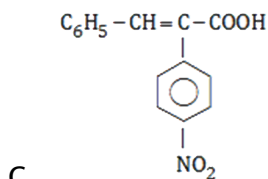
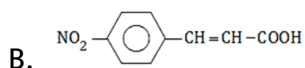
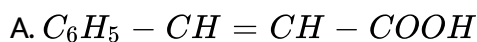
Answer: B

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43. The product of the reaction



$\text{CHO} + (\text{C}_6\text{H}_5 - \text{CHCO})_2\text{O} \xrightarrow{\text{C}_6\text{H}_5 - \text{CH}_2\text{COONa} / \Delta} (\text{X})$ will be



Answer: D

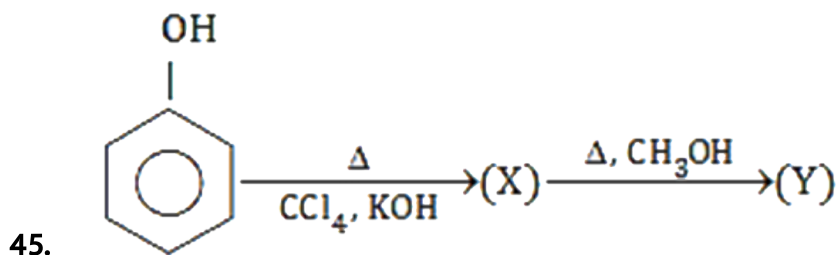
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44. Which one of the following behaves both as a nucleophile and an electrophile?

- A. Acetone
- B. Cyanide ion
- C. Nitrite ion
- D. Sulphite ion

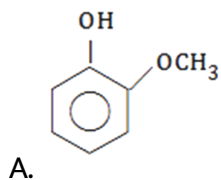
Answer: A

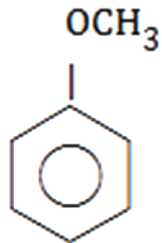
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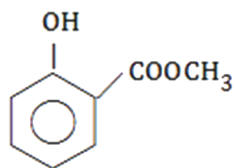
compound Y is

Here the

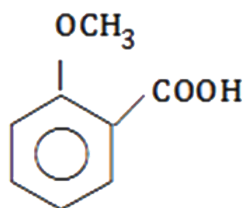




B.



C.



D.

Answer: C



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