



CHEMISTRY

BOOKS - FULL MARKS CHEMISTRY (TAMIL ENGLISH)

SAMPLE PAPER -19 (UNSOLVED)



1. Which one of the following is a diatomic molecule?

A. Ozone

B. Copper

C. Hydrogen

D. Gold

Answer:

2. The energy of light of wavelength 45 nm is

A. $6.67 imes10^{15}J$

B. $6.67 imes10^{11}J$

 $\text{C.}~4.42\times10^{-18}\text{J}$

D. $4.42 imes10^{-15}$ J

Answer:

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3. Which of the following statements related to the modern periodic table is incorrect?

A. The p-block has 6 columns, because a maximum of 6 electrons can

occupy all the orbitals in a p-subshell.

B. The d-block has 8 columns, because a maximum of 8 electrons can

occupy all the orbitals in a d-subshell.

- C. Each block contains a number of columns equal to the number of electrons that can occupy that subshell,
- D. The block indicates value of azimuthal quantum number (1) for the

last subshell that \cdot received electrons in building up the electronic configuration.

Answer:

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4. Tritium nucleus contains......

A. 1P + 0n

B.2p + In

 $\mathsf{C.}\,1p+2n$

D. none of these

Answer:

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5. Equal weights of methane and oxygen is mixed in an empty container at 298 K. The fraction .of total pressure exerted by oxygen is

A. 1/3

B. 1/2

C. 2/3

D. 1/3 imes 273 imes 298

Answer:

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6. Which of the following relation is true?

A. $C_p > C_V$ B. $C_V > C_P$ C. $C_p = C_v$ D. $C_P = C_v = 0$

Answer:

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7. Find the value of the reaction $H_2(g) + I_2(g) \Leftrightarrow 2HI(g)$ at an instant where concentration of H_2I_2 and 'HI are found to be $0.2molL^{-1}, 0.2molL^{-1}$, and 0.6 mol L^{-1} respectively.

A. 48

B. 9

C.0.9



8. In which of the following compound the solubility decreases with increase of temperature?

A. sodium chloride

B. ammonium nitrate

C. ceric sulphate

D. calcium chloride

Answer:

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9. Which one of the following has linear shape?

A. $I_3^{\,-}$

 $\mathrm{B.}\,ICI_{4}^{\,-}$

 $\mathsf{C}.\,BeF_5$

D. IOF_5

Answer:

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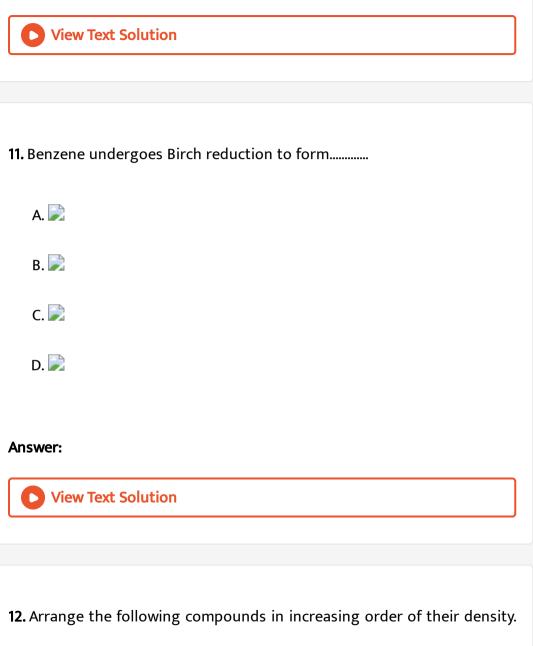
10. Alcohol on refluxing with $K_2 C r_2 O_7$ gives

A. Ester

B. Aldehyde

C. Sugar

D. Carboxylic acid



 $(A)CCI_4 \qquad (B)CHCI_3 \qquad (C)CH_2CI_2 \qquad (D)CH_3CI, \\$

A.
$$D < C < B < A$$

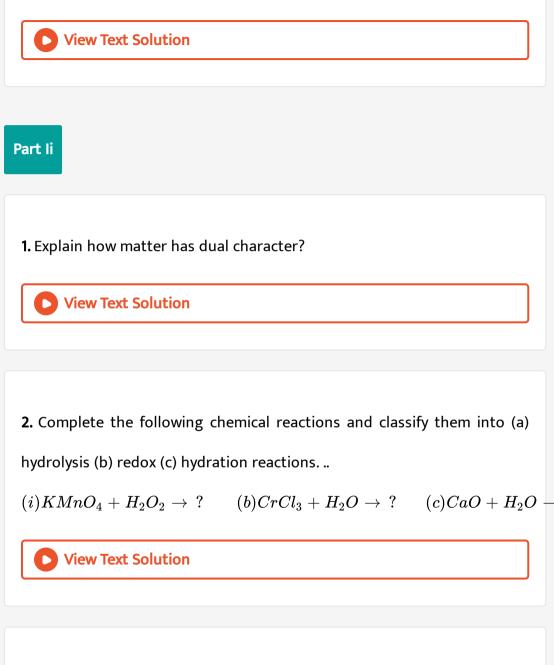
B. $C > B > A > D$
C. $A < B < C < D$
D. $C > A > B > D$

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13. Assertion (A): Excessive use of chlorinated pesticide causes soil and water pollution.

Reason (R): Such pesticides are non-biodegradable. '

- A. Both (A) and R are correct and (R).is the correct explanation of (A)
- B. Both (A) and R are correct and (R) is not the correct explanation of
 - (A)
- C. Both (A) and R are not correct
- D. (A) is correct but (R) is not correct



3. Mention the uses of plaster of paris.





4. Define enthalpy of neutralization.

5. Write a balanced chemical equation for à equilibrium reaction for which the equilibrium constant is given by expression,

$$egin{aligned} (I)K_C &= rac{(NH_3)^4[O_2]^5}{[NO]^4[H_2P]^6} \ (ii)K_C &= rac{[H_2][I_2]}{[HI]^2} \end{aligned}$$

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6. Phenol dimerises in benzene having Van't Hoff factor 0.54. What is the

degree of association?



7. How will you prepare benzene from coal tar?

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8. Write a notes on Williamson ether synthesis.
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9. Why Grignard reagent should be prepared in anhydrous condition?
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