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CHEMISTRY

BOOKS - VGS PUBLICATION-BRILLIANT

AP MARCH - 2019 I.P.E.PAPER

Section A

1. What is Plaster of Paris? Write its uses.

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2. What agrochemicals are responsible for water pollution ?

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3. Name the common components of photochemical smog.

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4. Potassium carbonate cannot be prepared by Solvey process. Why?

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5. What is the effect of pressure on gaseous chemical equilibrium?

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6. Explain extensive and intensive properties.

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7. State the 3^{rd} law of thermodynamics.

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8. Calculate the amount of Carbon dioxide that could be produced when one mole of Carbon is burnt in 16g of dioxygen.

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9. Calculate the ratio of kinetic energies of 3g of hydrogen and 4g of oxygen at an given temperature.

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10. Write IUPAC names of the following compounds :

$(CH_3)_2C(C_2H_5)_2$

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11. Write IUPAC names of the following compounds.

$CH_3C = C(CH_3)_2$

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Section B

1. State Graham's law of diffusion.

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2. Balance the following redox reaction in basic medium by ion-electron method :

$$MnO^{-}_{4(aq)} + 1^{-}_{(aq)} \rightarrow MnO_{2(s)} + 1_{2(s)}$$

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3. What is a conjugate acid-base pair ? Write the conjugate acid and conjugate base of each of the following :

a) OH^{-} b) HCO^{-}_{3}

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4. Explain the following with suitable examples

:

Electron deficient hydrides

5. Explain the following with suitable examples

:

Ionic hydrides

6. Explain the structure of diborane.

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7. What do you understand by

(a) Allotropy (b) Inert pair effect ?

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8. Describe two methods of preparaton of ethane. Given any three reaction of ethane.

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9. Write the reactions of Ethylene with the following :

(a) Ozone

b) Cold, dilute alk, $KMnO_4$

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Section C

1. What are the postulates of Bohr's model of hydrogen atom?

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2. State Hund's rule and Aufbau principle.

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3. Given the outer electronic configuration of s,p,d and f-block elements.

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4. Explain the hybridisation involved is SF_6.

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5. State Fajan's rules, and give suitable examples.

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