Model Question of SSC Examination 2020 for All Board

Chemistry

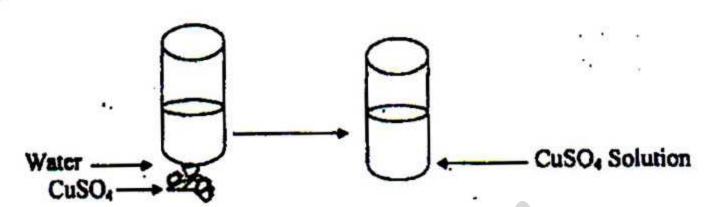
Subject Code | 1 | 3 | 7 |

Time — 2 hours 35 minutes

Creative Essay Type Questions

Full marks - 50

[N.B.-The figures in the right margin indicate full marks. Read the stems attentively and answer any five of the following questions.]



What is weak alkali? a.

Why blaeaching powder is used to purify water? b.

What type of process is shown in the process given the stem? 3

Is it possible to separate the solute and solvent from CuSO₄ solution? Give opinion.

Reagent	Product
Caustic Soda	Cleaning agent-A
Ammonia solution	Cleaning agent-B

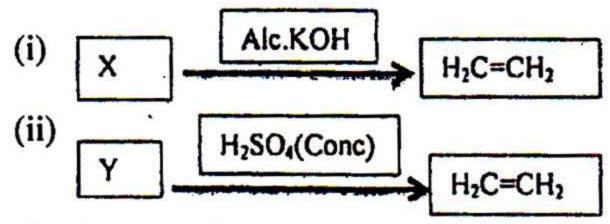
What is tollen reagent? a.

Why Fe₃O₄ is the best ore to extract iron? b.

- Explain the cleaning mechanism of cleaning agent-A.
- Is it possible to use as cleaning agent-B for toilet cleaner? Analyze your logic.

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3. ▶



- a. What is catenation?
- b. Why alkenes are more reactive than alkane? 2
- c. What will be the reactant of "X & Y" above stem reaction?

3

d. How is it possible to prepare "Y" from stem product?

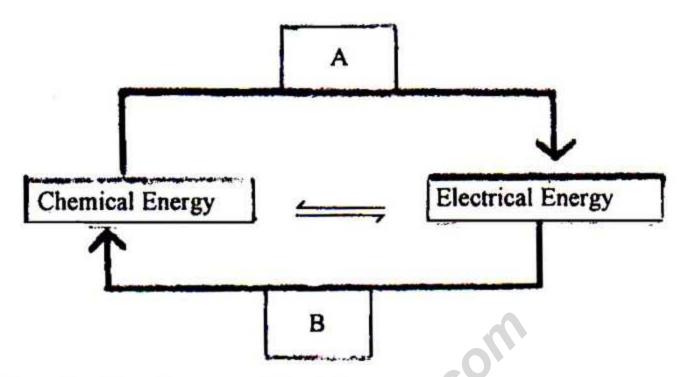
Analyze your logic.

4. 🖸

General formula A	General formula B	General formula C	General formula D				
C_nH_{2n+2} , n = 2	$C_nH_{2n+1}CHO$, $n=1$	$C_nH_{2n+1}OH,$ $n=2$	$C_nH_{2n+1}COO$ H, n = 1				

- a. What is monomer?
- b. Why benzene is called aromatic compound?
- c. Explain preparation method of product D from A. 3
- d. Which of the stem following act as food preservative & bio-fuel? Explain with your logic.

5. Þ



- a. What is the shape of H₂O?
- b. What does happen in roasting process?
- c. Explain mechanism of stem mention process A. 3
- d. How can you produce Caustic soda from stem process
 B? Explain with logic.

$\begin{array}{c} 285 \\ 92 \\ \end{array} U + \begin{array}{c} 1 \\ 0 \\ \end{array} n \rightarrow \begin{array}{c} \end{array}$	A	+	В	+	С	+	Energy
² H + ⁹ H →	х	+	Y	+	Energy	П	

- a. What is the chemical formula of urea?
- b. What is the significance of ΔH ?
- c. Complete above stem mentions reaction (i) & (ii). 3
- d. Why the stem reaction (i) & (ii) are totally differencing explain with you logic?

- 7. Periodic properties: Metallic properties, non-metalic properties, atomic radius, ionization energy, electro negativity, electron affinity these are the perodic properties of elements in periodic table.
- a. What is coinage metal?

b. What is the position of "K" in periodic table?

- Between Al & Al3+ which one is more atomic size and why?
- d. Which of stem properties can effect on the nature of bonds in molecules? Explain with your logic.

8.

Element	Amount
Н	0.45gm
C	2.7gm
0	3.6gm

A is compound contain three elements. The molecular mass of these compound is 180.

What is saturated solution? a.

b. Write down the two isomer of C₂H₆O.

- c. Determine the percent composition of stem compound "A" mention?
- Is it possible to assure the nomenclature of the compound?

[NB. Answer all the questions. Each question carries one mark. Block fully, with a ball point pen, the circle of the letter that stands for the correct/best answer in the "Answer Sheet" for the Multiple Choice Questions Examination.]

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i i

14.	 What is the optimum temperature and pressure to produce ammonia gas in Habar process? 450° C, 200atm 													 20. ★ Rust is— i. Hydrated iron oxide ii. Formed by Fe, O₂, H₂O iii. Black in color Which one of the following is correct 											
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