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#### Imstructionse

- # Periodic Table is provided.
- This paper consists of 09 pages.
- · Answer all the questions.
- Use of calculators is not allowed.
- # Write your Index Number in the space provided in the answer sheet.
- Follow the instructions given on the back of the answer sheet carefully.
- \* In each of the questions 1 to 50, pick one of the alternatives from (1), (2), (3), (4), (5) which is correct or most appropriate and mark your response on the answer sheet with a cross (x) in accordance with the instructions given on the back of the answer sheet.

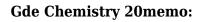
Universal gas constant  $R = 8.314 \text{ J K}^{-1} \text{ mol}^{-1}$ Avogadro constant  $N_a = 6.022 \times 10^{23} \text{ mol}^{-1}$  Planck's constant  $h = 6.626 \times 10^{-34} \text{ J s}$ Velocity of light  $c = 3 \times 10^8 \text{ m s}^{-1}$ 

- Which of the following electronic transitions belongs to the visible region of the line spectrum of atomic hydrogen? (n = Principal quantum number)
  - (1)  $n=5 \rightarrow n=3$ (2)  $n=4 \rightarrow n=2$
  - (2) N = + N = 2
  - (3)  $n=1 \rightarrow n=2$ (4)  $n=3 \rightarrow n=1$
  - (5)  $n=2 \rightarrow n=1$
- 2. Select the incorrect statement.
  - (1) Pauli exclusion principle excludes the possibility of the presence of a third electron in an orbital.
  - (2) In a potassium atom, the number of electrons having quantum numbers n (principal quantum number) = 3 and m, (magnetic quantum number) = 0 is 4.
  - (3) The effective nuclear charge felt by a valence electron in nitrogen (N), is greater than the effective nuclear charge felt by a valence electron in carbon (C).
  - (4) Among the ions Na\*, Mg<sup>2\*</sup>, K\* and Ca<sup>2\*</sup>, the two ions closest to each other in size are K\* and Mg<sup>2\*</sup>.
  - (5) Electron gain energy of carbon is negative.
- 3. The increasing order of the second ionization energy  $(X^*(g) \rightarrow X^{2*}(g) + e)$  of Be, B and O is,
  - (I) Be < B < O
  - (2) Be < O < B (3) B < O < Be
  - (4) B < Be < O
  - (5) O < Be < B
- 4. The shapes of F<sub>4</sub>ClO, FClO, and FClO, are respectively,
  - (1) tetrahedral, trigonal planar and see-saw.
  - (2) square planar, trigonal planar and tetrahedral.
  - (3) see-saw, trigonal pyramidal and square planar.
  - (4) tetrahedral, trigonal pyramidal and see-saw.
  - (5) see-saw, trigonal pyramidal and tetrahedral.

[See page two

# **Gde Chemistry 20memo**

**Karin Nielsen-Saines** 



The Enigmatic Realm of **Gde Chemistry 20memo**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Gde Chemistry 20memo** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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