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Tribhuvan University
Institute of Science and Technology
B.Sc. Entrance Examination
Model question

Full marks: 100

Time: 2 hrs

Attempt all questions.

Group A (Chemistry)

(25 x 1 = 25)

- Which of the following elements does not contain neutron?
 - H
 - He
 - Be
 - Li
- The oxidation number of Nitrogen is - 1 in
 - NH_3
 - NH_2OH
 - N_2
 - N_2O
- The number of unpaired electrons in oxygen is
 - 2
 - 3
 - 4
 - 6
- The unit of radioactivity is
 - Fajan
 - Bohr
 - Curie
 - Debye
- Which of the following compounds gives positive AgNO_3 test?
 - CCl_4
 - CH_3Cl
 - CHCl_3
 - NaCl
- 'At same temperature and pressure equal volume of all gases has same number of molecules' this statement belongs to
 - Boyle's law
 - Avogadro's law
 - Charles' law
 - Graham's law
- A gas diffuses 4 times as fast as O_2 . The molecular weight of the gas is
 - 4..2
 - 8
 - 16
 - 2
- In a solution containing 1 mole alcohol and 4 mole water, the mole fraction of alcohol is
 - $\frac{1}{4}$
 - $\frac{3}{4}$
 - $\frac{4}{5}$
 - $\frac{1}{5}$

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S Marginson



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