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

Full marks: 100

Attempt all questions.

Time: 2 hrs

| Group A (Chemistry) | | (25 x 1 = 25) |

1. Which of the following elements does not contain neutron?
   - a.   H
   - b.   He
   - c.   Be
   - d.   Li

2. The oxidation number of Nitrogen is - 1 in
   - a. NH_3
   - b. NH_2OH
   - c. N_2
   - d. N_2O

3. The number of unpaired electrons in oxygen is
   - a.   2
   - b.   3
   - c.   4
   - d.   6

4. The unit of radioactivity is
   - a.   Fajan
   - b.   Bohr
   - c.   Curie
   - d.   Debye

5. Which of the following compounds gives positive $AgNO_3$ test?
   - a.   CCl4
   - b.   CH3Cl
   - c.   CHCl3
   - d.   NaCl

6. 'At same temperature and pressure equal volume of all gases has same number of molecules' this statement belongs to
   - a.   Boyle's law
   - b.   Avogadro's law
   - c.   Charles' law
   - d.   Graham's law

7. A gas diffuses 4 times as fast as O_2. The molecular weight of the gas is
   - a.   4..2
   - b.   8
   - c.   16
   - d.   2

8. In a solution containing 1 mole alcohol and 4 mole water, the mole fraction of alcohol is
   - a.   1/4
   - b.   3/4
   - c.   4/5
   - d.   1/5

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