

Name: \_\_\_\_\_

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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
  - $\text{NH}_3$
  - $\text{NH}_2\text{OH}$
  - $\text{N}_2$
  - $\text{N}_2\text{O}$
- 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  $\text{AgNO}_3$  test?
  - $\text{CCl}_4$
  - $\text{CH}_3\text{Cl}$
  - $\text{CHCl}_3$
  - $\text{NaCl}$
- '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  $\text{O}_2$ . 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
  - $\frac{1}{4}$
  - $\frac{3}{4}$
  - $\frac{4}{5}$
  - $\frac{1}{5}$

# Engineering Science Nexam Papers And Answers

**A Gutmann**



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