**First exam for master students 2024**

**Q1**:

1. write issue (less 50 words)izers which primary nutrient for plant life in nature.
2. Ilustrate show relation of losses ammonia applied(220 kg ha-1 ) from loam soil as influenced by depth of application N-fertilizer and soil miosture?

**Q2:**

 **1-** nitrogen transformation is various processes in acidity or alkalinity soil , prove these processes ?

 **2**- increasing N use efficiency requried some of practices that reflect on growth parameters plant , design field experiment conduct that ?

**Q3:**

 **1**- write list of main soil factors that affect in availability of N-fertilizer as ammonium nitrate in calcarasous soil ?

 **2-** Discuss the main alternative practices can support nitrogen effeciency management ?

**Q4:**

**1-** explain the effect of two or three split doses and volitalization urea in cultivated wheat crop grown in arieded regions ?

**2- true or false for below :**

**a-** annual N loss (kgN ha-1 yr-1 ) with denitrification in sand loam - loam - clay loam as according :

1- 1.9 - 75- 45 2- 1.9 - 45 – 75 3- 75 - 1.9- 45

**b-**

Mean concentration of nitrate (mgN L-1) in sandy cultivated with cereal - potatoes = 30

And 14 with cereal - faba crops

Cultivated in sandy soil

**Lecturer** :

**Assist. Prof Zainab K. Hasan**