19/MHS06/031

ADIGUN HAFSAT OLUWABUSOLA.

BCH 204.

QUESTION:

Outline the toxicity values and deficiency manifestations of the following minerals.

A) Potassium

B) Calcium

C) magnesium

D) Chloride

E) Iron

A) potassium:

Toxicity value- Having a blood potassium level higher than 6.0 mmol/L can be dangerous, toxicity value of patassium is 6.3 - 8.0mM.

Deficiency manifestation- Hypokalemia, Anorexia rare, Heart malfunction, rhabdomyolysis.

B) Calcium:

Toxicity value- When serum calcium levels rise above 12 mg/dL.

Deficiency manifestation- osteomalacia, hypocalcaemia, rickets.

C) Magnesium:

Toxicity value- when concentration exceeds 1.74- 2.61.

Deficiency manifestation- poor calcium absorption, infertility, weak joints, and poor growth.

D) Chloride:

Toxicity value- level higher than 107 mEq/L.

Deficiency manifestation-hypochloremia, excessive thirst, prolonged diarrhea, breathing problems, high blood pressure and muscle weakness.

E) Iron;

Toxicity value- doses above 10–20 mg/kg.

Deficiency manifestation- Anemia, hypochronic/metabolism, increased respiration more prone to piglets diseaseas, poor growth.