

STUDY CHECK

a. Different classes of animals exhibit some variations in their excretory system, process of excretion and forms of nitrogenous wastes. Why do you think

b. Analyze the urinalysis results below by comparing it to the normal urinalysis values.

health status of this individual.

reason/s for the deviation of values from normal.

NORMAL URINE VALUES

- pH 4.6–8.0 Adults and children
5.0–7.0 Newborns
- Color Amber-yellow
- Specific gravity 1.010–1.025
- Protein:
 - Qualitative None
 - Quantitative 10–100 mg/24h
- Glucose None
- Ketones None
- Blood 0–2 RBCs

(Data from Noe D., & Rock, R. [1994]. *Laboratory medicine*. Baltimore: Williams & Wilkins.)

Criteria	Range
pH	7.5
protein	Neg
glucose	4+
ketones	3+
blood/hemoglobin	Neg
bilirubin	2+
urobilinogen	Neg
leukocyte esterase	Neg
specific gravity	1.027

c. Based on the physical appearance of urine, we can do initial analysis of an individual's health status. Given the following sample of urine and urination practice, [REDACTED]

i. Colorless urine

- ii. Dark yellow urine
- iii. Light yellow urine
- iv. Painful urination
- v. Blood in the urine
- vi. Fruity smelling urine