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System

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Ouestion

Write a short note on the characteristics (and components) of urine

Characteristics of urine include;

- 1. A yellow amber colour but it varies according to diet and concentration of the urine
- 2. Fresh urine has a mild smell but aged urine has a stronger odor similar to that of ammonia.
- 3. The pH of normal urine is in the range 4.6 8, with an average of around 6.0. Ph could vary according to the diet of a person. e.g. a high protein diets result in more acidic urine, but vegetarian diets generally result in more alkaline urine
- 4. The density of normal urine ranges from 0.001 to 0.035.
- 5. The turbidity of urine is clear, slightly cloudy, cloudy, opaque or flocculent. Normally, fresh urine is either clear or very slightly cloudy.

Components of urine

Urine is a byproduct of the body secreted by the kidneys through urination and excreted through the urethra. The normal chemical composition of urine is mainly water; it also includes nitrogenous molecules, such as urea, as well as creatinine and other metabolic waste components. Other components of urine in order of decreasing concentration include;

Urea 9.3 g/L.

Chloride 1.87 g/L.

Sodium 1.17 g/L.

Potassium 0.750 g/L.

Creatinine 0.670 g/L.

Other dissolved ions, inorganic and organic compounds (proteins, hormones, metabolites).