

Anatomy and Physiology: Exam 2

Functions of the Integumentary System

(ANS-

- Resistance to trauma and infection
- Prevents loss or gain of water
- Vitamin D synthesis
- Sensory receptors for heat, cold, touch, texture, pressure, vibration, and tissue injury
- Thermoregulation

How does skin resist trauma and infection?

(ANS-

- Skin has low pH to reduce bacteria and fungi
- Cells are packed closely together with tough protein called keratin

Name 3 ways the integumentary system thermoregulates?

(ANS-

- Glands release sweat for evaporative cooling
- Vasoconstriction
- Vasodilation

Define: Vasoconstriction

(ANS- narrowing of blood vessels, reduces heat loss

Define: Vasodilation

(ANS- widening of blood vessels, increases heat loss

What are the 2 main parts of the integumentary system?

(ANS-

Epidermis- outer layer

Dermis- underlying connective tissue

Hypodermis not really part of the skin!

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