

Unit 10: Respiratory and Urinary Systems Unit objectives

Respiratory system

1. Compare the respiratory systems of mammals, reptiles, fish, and birds.
2. Detail the air respiratory systems from invertebrates
3. Detail gas transport mechanisms through the respiratory system
4. Discuss the control of ventilation (V_E) breathing through and across the body wall & give an example (don't use examples)
5. Discuss the control of ventilation (V_E) control via breathing and across the tissue wall & give an example
6. Label the structures of the respiratory system on a diagram and describe the function of each
7. Describe the changes that occur during inhalation and exhalation, including volume changes and pressure changes
8. Identify the structures responsible for creating gases between the blood stream, mitochondria
9. Identify the role of H₂O in controlling water balance

Urinary

1. Describe of urinary system
2. Label the organs and describe the function of each organ
3. Describe the relationship between the urinary system and the circulatory system
4. Describe the steps that occur in the system in the production of urine
5. Identify the parts of a kidney
6. Describe the role of ADH in controlling water balance

Substitutions: lung capacity, renal tubule, kidney structure

Agartha: Reading assignments

Unit	Topic	Reading
Unit 10	Respiratory system structures	28.2-28.4, 28.8
Unit 10	Lung capacity, renal tubule	28.2-28.4, 28.8
Unit 10	Breathing gas in a fish & bird	28.7-28.9
Unit 10	Lung capacity, renal tubule	28.7-28.9
Unit 10	Exhalation & renal	28.7-28.9
Unit 10	Urinary system	28.7-28.9
Unit 10	Urinary structures	28.2-28.4
Unit 10	Renal system	28.2-28.4
Unit 10	ADH	28.2-28.4
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