

Advanced Biology Semester Two Final Exam Review

1. Describe how a negative feedback system is used in endocrine system functioning.
2. What is the function of these digestive hormones: gastrin, secretin, cholecystokinin?
3. Recognize various enzyme actions in the digestive process.
4. Know the path of mechanical and chemical digestion.
5. What are the parts of the alimentary canal parts vs. accessory organs?
6. Where is the site of most of the absorption of nutrients?
7. How does food move through the alimentary canal?
8. How does bile differ from enzymes?
9. What are the membranes around the lungs? How are they helpful to breathing?
10. Describe the mechanism of pulmonary ventilation (inspiration & expiration).
11. Why do gases move between tissues?
12. What is the difference between external respiration and internal respiration?
13. What is the importance of the function of the epiglottis?
14. What is involved in the breathing mechanism (diaphragm, size of cavity/lungs)?
15. What is the respiratory center in the brain sensitive to in the blood?
16. What is the pattern of impulse conduction in the heart?
17. What are the parts cardiac cycle and how are they related to systolic and diastolic blood pressure?
18. Understand the path of blood- pulmonary and systemic
19. Where do you find oxygenated versus deoxygenated blood?
20. What type of muscle tissue is found in the heart? in blood vessels? In digestive tract?
21. What are the functions of valves in the heart and veins?
22. What are the general functions of blood?
23. What is agglutination?
24. Know ABO blood type classification and characteristics.
25. What blood types are compatible for transfusions?
26. How is Rh factor related to agglutination?
27. What is erythroblastosis fetalis and how is it related to Rh factor?
28. Know the components of blood (cell types, characteristics & functions).
29. What is the functional unit of the kidney?
30. How are the nephrons situated in the kidney (cortex vs medulla)?
31. Describe the difference between filtrate and urine.
32. How is urine formed?
33. What comprises the renal corpuscle? How is it involved in kidney function?
34. What is the general function of the lymphatic system?
35. What are the functions of the spleen?
36. What is the effect of the release of epinephrine (adrenalin) from the adrenal medulla?
37. What organs are associated with the endocrine system? Why?
38. Where is the thyroid gland located?
39. What is the effect of the pituitary gland's release of antidiuretic hormone (ADH)?
40. What are the functions external and internal reproductive organs (male and female)?