

Bio 202 Midterm

1. What controls the release of hormones from the anterior pituitary?
2. What impact the amount of ADH released into your blood?
3. Know disorders associated with hyper and hypo secretion of pituitary, thyroid, renal and pancreatic glands.
4. What glands/ hormones are involved in our long term stress response?
5. Know the hormone classes.
6. Know the glands by position, what they make, and what the hormones do.
7. Know the microscopic anatomy of the adrenal and thyroid glands and what each area is responsible for.
8. What is seasonal affective disorder and which glands/ hormones are involved with it?
9. Know examples of positive feedback, negative feedback, synergy, and antagonism.
10. How many hemoglobin molecules are in each RBC?
11. Know the components of blood- liquid and formed elements by function and volume.
12. Know the roles of all the major cell types found in blood, be able to ID each visually and in text.
13. What is ferritin?
14. Know the process of blood clotting.
15. Know the hormones that affect blood cells/ blood volume and where they are produced.
16. Know how to read an EKG
17. Study the heart anatomy, inside and out. (even the heart muscle itself) Be able to ID parts both visually as well as in text.
18. Study heart contraction- review things like preload/ afterload and contractility; cardiac output. Input, stroke volume, heart rate and pulse pressure. Know factors that affect them.
19. Know the major blood vessels of the body. Review the loops that move blood to the head, down an arm and down a leg. Know the specific vessels that feed your major organs ie stomach, kidneys etc...
20. What happens when an arteriole is damaged?
21. What factors/ things aid in the circulation of blood through the body?
22. What action results from chemoreceptors detecting high levels of CO₂ in the blood?
23. What is the difference between pulse pressure and arterial pressure? How do you calc it from normal blood pressure?
24. What are some commonly observed cardiovascular changes from aging?
25. Know the parts of the lymphatic system.
26. Study lymph nodes and the spleen down to the cell types within them, know what goes in/ out and what is done internally.
27. Why is lymph from the small intestine white?
28. What do we call an inactive, self responsive cell?
29. Know the classes/ types of antibodies, how are they made/ what do they do?
30. What action makes microbes susceptible to phagocytosis?