

# Physiology 2 midterm exam questions

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## Dr. Yanal questions:

1. What is true about the Hb dissociation curve:

Answer: In exercising P50 increases.

2. What causes a decrease in PO<sub>2</sub>?

Answer: Pulmonary edema.

3. The following happens in hyperventilation:

Answer: Po<sub>2</sub> increases, Ph<sub>2</sub>o non-changed, Pco<sub>2</sub> decreases.

4. Regarding physiologic dead space:

Answer: Equals Anatomic dead space in normal people.

5. Which compartment has the highest PO<sub>2</sub>:

Answer: First expired volume.

6. Right about CO poisoning:

Answer: Decreases the number of oxygens bound to hemoglobin.



7. Wrong about surfactant:

Answer: Increases surface tension forces.

8. True about functional residual capacity:

Answer: Increases in COPD.

9. Wrong about compliance:

Answer: Increased compliance causes easier expiration.

10. Maximum inspiratory muscles activity is the definition of:

Answer: Total lung capacity.

11. Only thing that doesn't decrease in fibrosis

Answer: FEV1/FVC

12. Regarding work of breathing, one is true:

Answer: Inversely related to compliance.

13. In restrictive diseases, there is a normal or a slightly above value of:

Answer: FEV1/FVC

14. High altitude compared to sea level:

Answer: oxygen percentage in the air stays the same.



15. Bacteria TB lives in the apex of the lung:

Answer: Because V/Q is higher than 1

16. Answer: 13.5 “A calculation question that I couldn’t remember”

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**Dr. Saleem questions:**

17. Cholesterol gives rise to these hormones except:

Answer: Catecholamine.

18. Which hormonal deficiency causes mentally retarded dwarfism:

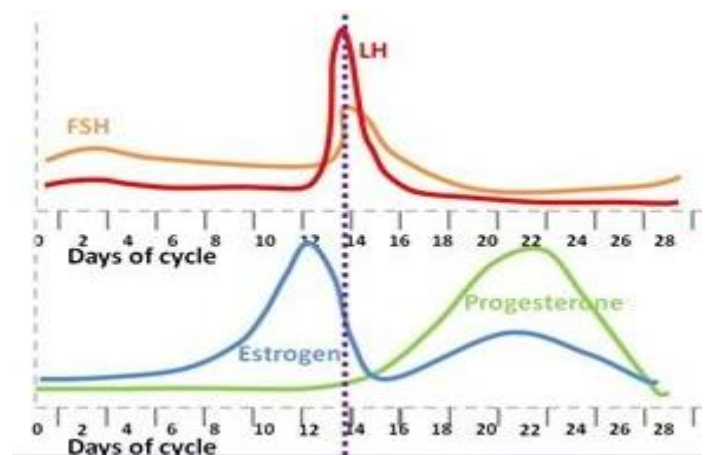
Answer: Thyroid hormone.

19. Maintains basal metabolic rate:

Answer: Thyroid hormone.

20. A graph showing all hormones that participate in the ovarian cycle and asks for the name of the numbered plots 1, 2, 3, 4:

Answer: FSH /estrogen /LH /progesterone.





21. Most important hyperglycemic hormone:

Answer: Glucagon.

22. One of the following is a neurohormone:

Answer: Vasopressin (ADH).

23. Testosterone is secreted by:

Answer: Leydig cells.

24. What is wrong regarding endocrine glands:

Answer: The same hormone has only one target cell.

25. Period duration=35 and asks for the **SAFE** period:

Answer: 25-35.

26. Least hormone that participates in calcium metabolism:

Answer: Aldosterone.

27. Doesn't produce cAMP second messenger:

Answer: Insulin.

28. Inhibition of it causes hypotension:

Answer: Ang 2.

29. Not true about human chorionic gonadotropin “hCG”:

Answer: Secreted by corpus luteum.



30. All stimulate growth hormone “GH” except:

Answer: Obesity.

31. False about adrenaline:

Answer: Peptide hormone.

32. Wrong about Vitamin D:

Answer: Vitamin D3 only is sufficient for humans.

33. Wrong about osteoporosis:

Answer: In females only.

34. Stimulates both insulin and GH:

Answer: Increasing protein intake.

35. Only hypoglycemic hormone:

Answer: Insulin.

36. Number of sperms in ejaculation:

Answer: 300-400 million.

37. Most essential hormone:

Answer: Aldosterone.



38. Most abundant, most potent respectively:

Answer: T4, T3.

39. Hormone that is important in the development of the nervous system:

Answer: Thyroid hormone.

40. Don't need insulin for glucose uptake:

Answer: RBCs.

كل التوفيق