

Jordan university of Science and Technology
Department of Physiology
Second Exam M132

1- The volume of gas in the lungs at the end of a maximal inspiration is referred to as the:

- Inspiratory reserve volume

2- Which of the following has the highest alveolar ventilation?

- Tidal volume = 1000 ml, respiratory rate = 8 breath/min; dead space volume = 200 ml

3- Which of the following statements concerning the oxyhemoglobin dissociation relationship is **WRONG**?

- At $P_{O_2} = 40$ mmHg, the hemoglobin is 40% saturated

4- Concerning the control of respiration. Which of the following are incorrectly paired?

- PH of plasma Have very strong effect o respiration

5- Which of the following statements is **CORRECT**?

- During quite inspiration, the intrapleural pressure becomes more negative

6- Carbonic anhydrase

- Accelerate (Increases) the reaction of water and CO_2

7- Which of the following factors causes collapsing of the lungs?

- The thin layer of fluid lining the wall in alveoli

8- PCO_2 of the blood is due to CO_2 which is:

- Bicarbonate form in plasma

9- Oxygen carried mainly in the blood in form of:

- Oxyhemoglobin

10- During resting the active sites on actin are covered by:

- Tropomyosin

11- The power stroke in muscle contraction is caused directly by:

- The energy released from ATP break downs

12- The detachment of myosin from actin during contraction is produced by:

- The attachment of a fresh ATP molecule to Myosin head potential in the tissue

13- The limbic system:

- Is involved in emotional responses

14- Which one of the following sentences regarding the hippocampus is CORRECT?

- Destruction of the hippocampus leads to inability to form new memories

15- Pain sensation carried by fast pathway:

- Are carried by small myelinated nerve fibers

16- All of the following are true regarding astrocytes Except:

- They produce nerve growth enhancing proteins

17- Wernick's area:

- Is needed for understanding heard and seen speech.

18- Slaw Wave sleep is characterized by one of the following: :

- There is considerable muscle tone

19- Stimulation of nerve sympathetic system leads to all of the following Except:

- An increase the motility of the intestine.

20- Parasympathetic nervous system:

- Stimulation increases salivary secretion

21- Choose the CORRECT statement about brain stem:

- It is important in consciousness

22- Regarding different parts of the brain and their function choose the wrong one:

- Cerebellum Declarative memory

23- One of the following is wrong regarding sensory receptors:

- Nociceptors sensitivity is decreased by prostaglandins

24- Sympathetic nervous system

- Stimulation to adrenal medulla causing release of norepinephrine and epinephrine

25- Regarding the brain, choose the CORRECT statements:

- Glial cells in the brain can divide

26- The function of the thalamus is:

- Acting as a relation station for sensory input

27- Regarding rapid eye movement sleep, choose the WRONG statement:

- Occurs immediately after the person enters into sleep

28- An increase in the muscle tone is seen in the damage of

- Basal ganglia

29- Regarding conditions arise from destruction of different brain parts, choose the WRONG match?

- Destruction of Hypothalamus Loss of consciousness

30- Stretch reflex:

- Is a monosynaptic reflex.

ست سنين أبا محمداً! ولم يزل دمك فينا ندياً، نشاهد الخائفين يتلوتون من حولنا، يدعون بأنهم يحملون لونا، وحين ينسكب الطهر مطراً من فوقنا، تذوب جلودهم! وفي الطرقات.. ظللاً يسرون!

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الكل يسخر من عري اللعبة، فيكسوها ببعض الكلمات! بصناديق للاقتراع! وحواجر مرنة تمهد الطريق لمن يحفظ عن ظهر قلب اسم الجلاد الذي يراقبه سادته غير بعيد.

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!

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