INICET

Question Paper



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INI CET 2022 (May)

Question Paper

Physiology

(Based on Memory Recall)

Q1. What causes detachment of myosin head from actin head during muscle contraction?

A) Binding of ATP
B) Hydrolysis of ATP to ADP and Pi
C) Decrease in sarcoplasmic calcium
D) Power stroke

Correct answer : A

Q2. Which of the following is the physiological mechanism of TENS?

A) Gate control mechanism
B) Descending pain inhibiting tract
C) Both A and B
D) None of the above

Correct answer : A

Q3. Counter current mechanisms are found in

a. **Eye**
b. **Testes**
c. **Gut**
d. **Kidney**
e. **Lungs**

Choose the most appropriate answer from the following key

A) a and b are correct
B) b,c, d are correct
C) c, d, e are correct
D) b, c, d , e are correct

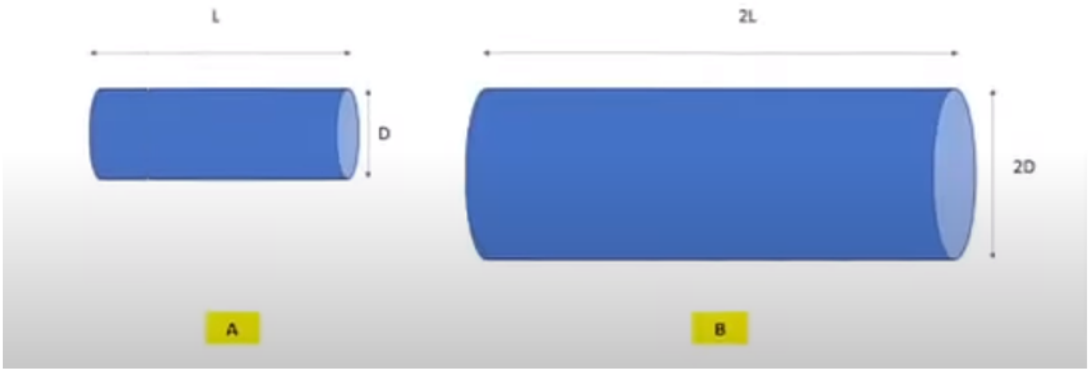
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Correct answer : D

Q4. Two blood vessels, A and B, have a laminar blood flow. In the blood vessel B, diameter and length are doubled as shown in the diagram given below. Flow in B will be how many times the flow in A ?



A) 4 times
B) 8 times
C) 16 times
D) 32 times

Correct answer : B

Q5. Physiological adaptation at high altitude

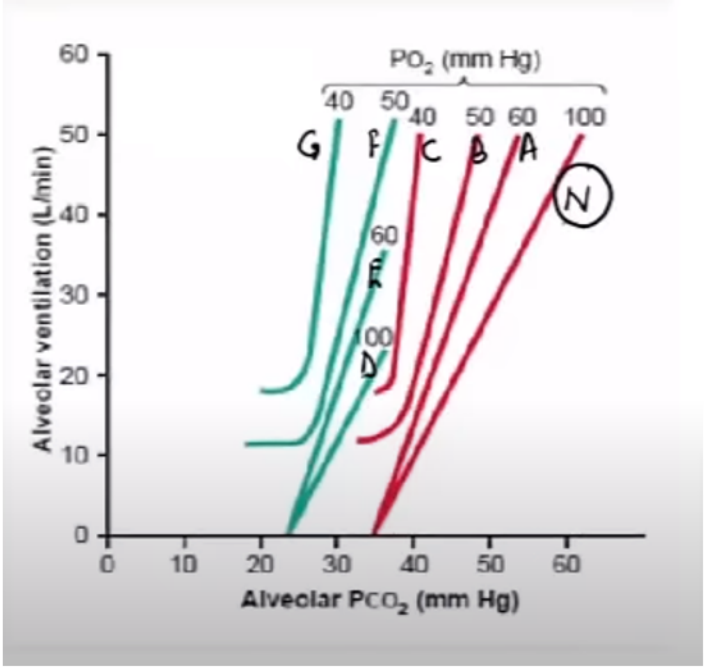
A) Pulmonary vasoconstriction
B) Increased heart rate
C) Polycythemia
D) All of the above

Correct answer : D

Q6. In the following graph, the line N represents the normal relationship between alveolar ventilation and PCO2 (when PO2 is kept constant at 100 mm Hg.). If the pH is changed from 7.4 to 7.3, where will the original line shift?

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A) G
B) F
C) A
D) N

Correct answer : D

Q7. Not a cause of central cyanosis

A) Pulmonary arteriovenous fistula
B) Methemoglobinemia
C) High altitude
D) Hypothermia

Correct answer : D

Q8. Given below are substances and their mechanism of transport

a) **O2 - simple diffusion**
b) **Glucose - facilitated diffusion**
c) **Na+ - secondary active transport**
d) **Ca++ - primary active transport**
e) **Na+ - voltage gated channel**

Use the following key to answer

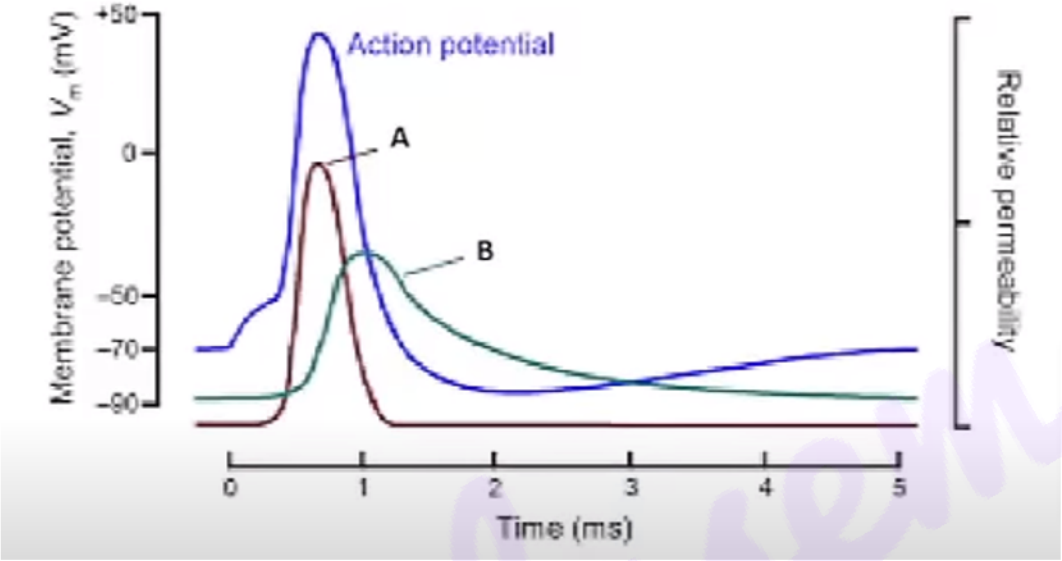
A) a, c, d are correct
B) b, c, d are correct

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C) a, b, c, d are correct
D) a, b, c, d , e are correct

Correct answer : D

Q5. Shown below is the conductance of two ions during different phases of the action potential



Which of the following pair of ions correspond to the graphs A and B respectively?

A) Na+ and K+
B) Na+ and Ca++
C) K+ and Ca++
D) Ca++ and Na+

Correct answer : A

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