

NEET LOCOMOTION AND MOVEMENT — MUSCLE: STRUCTURE OF CONTRACTILE PROTEINS — PYQS

Max. Marks: 20

Questions: 5

Section A (MCQ) — 5 questions

Q.1 Which of the following statements are correct regarding skeletal muscle?

- A. Muscle bundles are held together by collagenous connective tissue layer called fascicle.
- B. Sarcoplasmic reticulum of muscle fibre is a store house of calcium ions.
- C. Striated appearance of skeletal muscle fibre is due to distribution pattern of actin and myosin proteins.
- D. M line is considered as functional unit of contraction called sarcomere.

Choose the most appropriate answer from the options given below: [NEET (UG) 2023]

- (1) B and C only
- (2) A, C and D only
- (3) C and D only
- (4) A, B and C only

Scan or tap for the full solution



Q.2 The H-zone in the skeletal muscle fibre is due to

[NEET 2013]

- (1) the central gap between actin filaments extending through myosin filaments in the A-band
- (2) extension of myosin filaments in the central portion of the A-band
- (3) the absence of myofibrils in the central portion of A-band
- (4) the central gap between myosin filaments in the A-band.

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Q.3 Which one of the following pairs of chemical substances, is correctly categorised ?

[AIPMT 2012 (Mains)]

- (1) Secretin and rhodopsin - Polypeptide hormones
- (2) Pepsin and prolactin - Two digestive enzymes secreted in stomach
- (3) Troponin and myosin - Complex proteins in striated muscles
- (4) Calcitonin and thymosin - Thyroid hormones

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Q.4 The contractile protein of skeletal muscle involving ATPase activity is [AIPMT 2006]

- (1) troponin
- (2) tropomyosin
- (3) myosin
- (4) α -actinin.

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Q.5 What is sarcomere?

[AIPMT 2001]

- (1) Part between two H-lines
- (2) Part between two A-lines
- (3) Part between two I-bands
- (4) Part between two Z-lines

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ANSWER KEY

Ques.	1	2	3	4	5						
Ans.	1	1	3	3	4						