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1st Year Biology Solved Exercise MCQs

NAME:				ROLL NO:		TIME:	15: MIN
SUB:	Biology	Date:				CLASS:	1st Year
SYLLABUS	Chp. 12 (Human Skeleton and Muscular Systems)			T. MARKS	12	OBT. M	

Q. 1 Choose the Correct Answer. Cutting, Erasing, Double Selection is Strictly Prohibited. (1x12=12)

1. Which structure are part of the appendicular skeleton:

(A) Ethmoid bone (B) Floating ribs

(C) Lumber vertebrae (D)Humerus bone

2. The term muscle fibre or myofibre refers to:

(A) A cellular organelle (B) A cell (C) A tissue (D) An organ

3. Which of these extends the entire length of a muscle fibre:

(A) Sacromere (B) Myofibril (C) Myosin filament (D) Actin filament

4. Actin filaments are made of proteins:

(A) Myosin and troponin (B) Actin and troponin

(C) Actin and myosin (D) Sarcomere

5. In a muscle, the Z-line are the protein for the attachment of the ends of:

(A) Two H-line (B) Two A-bands (C) Two Z-lines (D) Two I-bands

6. Sarcomere is a part between:

(A) Two H-lines (B) Two A-band (C) Two Z-lines (D) Two I-bands

7. Which part of muscle fibre released calcium ions which trigger contraction:

(A) Sarcolemma (B) Sarcoplasm (C) T-tubules (D) Sarcoplasmic reticulum

8. Which statement is correct to describing sliding filament model of muscle contraction:

(A) Myosin filament pull on the sacromere so that actin filament are shortened

(B) Myosin filament pull on actin filament so that sarcomere is shortened

(C) Actin filament pull on myosin filaments so that sarcomere is shortened

(D) Actin filament pull on sacromere so that myosin filaments are shortened

9. When a muscle fibre shortens, which of the following also shortens:

(A) Actin filament (B) Myosin filament (C) Sarcomere (D) Z-line

10. Which statement correctly describes an event of muscle contraction:

(A) Myosin heads bind to troponin

(B) ATP binds to the actin binding sites

(C) ATP is used to detach the myosin head from actin

(D) Troponin blocks the binding sites

11. Tendons connect bones and:

(A) Bone (B) Ligaments (C) Muscle (D) Cartilage

12. What is true about antagonistic pair of muscle?

(A) It provides a backup if one of the muscle is injured

(B) One muscle pushes while other pulls

(C) It allows muscles to produce opposing movements

(D) It doubles the strength of contraction

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Answer Key							
1	B	**2**	B	**3**	B	**4**	D
5	A	**6**	C	**7**	C	**8**	B
9	C	**10**	C	**11**	C	**12**	C