**Neha Malhotra** **R.L. Institute M: 9416974837**

**Max Time : 1 hr** **Class = 11th Biology Test Max Marks : 25**

**Topic: Locomotion And Movement**

1. Multiple choice questions : [ 1 X 5 = 5]
2. Which of the following joints would allow no movement?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Fibrous joint | b) cartilaginous | c) Synovial joint | d) Ball & socket |

1. The total number of bones together in the fore limbs, ribs and vertebral column of human are :

|  |  |  |  |
| --- | --- | --- | --- |
| a) 80 | b) 100 | c) 110 | d) 140 |

1. Stimulation of muscle fibre by a motor neuron occurs at :

|  |  |
| --- | --- |
| a) The sarcoplasmic reticulum | b) The neuromuscular junction |
| c) The transverse tubules | d) The myofibril |

1. Glenoid cavity articulates:

|  |  |
| --- | --- |
| a) scapula with acromion | b) Clavicle with scapula |
| c) Humerus with Scapula | d) Clavicle with Acromion |

1. Which of the following bone does not articulate with any other bone ?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Humerus | b) Malleus | c) Phalanges | d) hyoid |

1. In a muscle Ca++ is stored in ………………………… [ 1 ]
2. The human cranium made up of …………………….. bones. [ 1 ]
3. Functional unit of muscles is ………………………………. [ 1 ]
4. What is Rigor mortis? [ 2 ]
5. Write a note on thin filament and thick filament [ 2 ]
6. Give a brief account on Ribs bones. [ 2 ]
7. Define the following disorders : [ 3 ]

(i) Osteoporosis (ii) Tetany (iii) Myasthenia Gravis

1. Distinguish between skeletal muscles , smooth muscle and cardiac muscles. [ 3 ]
2. Expalin the mechanism of muscle contraction on basis of sliding filament theory [ 5 ]

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**Topic: Locomotion And Movement (Upto muscles)**

1. Multiple choice questions : [ 1 X 5 = 5]
2. The light and dark band of myofibrils are called as:

|  |  |
| --- | --- |
| a) I band and A band respectively | b) L band and D band respectively |
| c) A band and I band respectively | d) A band and M band respectively |

1. A sarcomere in the myofibril of muscle is found in between two successive :

|  |  |  |  |
| --- | --- | --- | --- |
| a) M – lines | b) Z– lines | c) H – zone | d) A – band |

1. F-actin is polymer of :

|  |  |  |  |
| --- | --- | --- | --- |
| a) troponin | b) globular actin | c) meromyosin | d) tropomyosin |

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|  |  |
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1. Name the ion responsible for unmasking of active sites of myosin for cross-bridge activity during muscles contraction.

|  |  |  |  |
| --- | --- | --- | --- |
| a) Calcium | b) Magnesium | c) sodium | d) Potassium |

1. In a muscle Ca++ is stored in ………………………… [ 1 ]
2. Functional unit of muscles is ………………………………. [ 1 ]
3. Define motor end plate. [ 1 ]
4. Name 4 contractile proteins present in myofilament. [ 1 ]
5. Define Sarcomere. [ 1 ]
6. Define Amoeboid and flagellar movement. [ 2 ]
7. Write a note on thin filament and thick filament [ 2 ]
8. Define the following disorders : [ 3 ]

(i) Rigor mortis (ii) Muscles fatigue (iii) Myasthenia Gravis

1. Distinguish between skeletal muscles , smooth muscle and cardiac muscles. [ 3 ]
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