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| Name: _____ | | | | | | |
| Subject: Biology | | Class: 12 th | | Time: 80 minutes | | |
| Chapter No.16 | | MJDexpert.com | | | Total Marks: | 40 |
| | | | | | Obtained marks | |

Note: Please attempt any 10 short questions from Question 2. Also, attempt both parts of Question 3. Cutting and removal of any content is strictly prohibited.

Q#1 Encircle the Correct Option (10 x 1 = 10)

1. What is the membrane that surrounds each muscle called?

- A) Estrogen B) Endosome C) Both A & B D) Sarcolemma

2. What is the main component of thick muscle fibers?

- A) Myosin B) Actin C) Lignin D) None

3. What is the primary source of energy for muscle contraction?

- A) Lactic Acid B) ATP C) Both A & B D) None

4. Cardiac muscles are classified as?

- A) Involuntary B) Voluntary C) Both A & B D) None

5. The shoulder joint is an example of a?

- A) Hinge Joint B) Synovial Joint C) Cartilaginous Joint D) Ball and Socket Joint

6. How many parts does sclerenchyma have?

- A) 2 B) 4 C) 3 D) 5

7. Collenchyma cells typically lack?

- A) Secondary Wall B) Primary Wall C) Both A & B D) None of these

8. How many types of skeletons are found in animals?

- A) 4 B) 5 C) 3 D) 2

9. A hinge joint permits movement in?

- A) Only One Direction B) Two Directions C) Any Direction D) None of these

10. The hip joint is an example of a?

- A) Ball and Socket Joint B) Hinge Joint C) Synovial Joint D) Cartilaginous Joint

Q #2 Short Questions (2 x 10 = 20)

1. What is the turgor process?

2. Explain the roles of collenchyma and sclerenchyma in plants.

3. What does ecdysis or moulting refer to?

4. List the components of the axial skeleton.

5. What are ligaments?

6. How many ribs do not attach directly to the sternum?

7. Compare and contrast bone and cartilage.

8. Describe three events in the sliding filament model of muscle contraction.

9. What are three functions of the skeletal system?

10. What is a fibrous capsule?

Q #3 Long Questions (2 x 5 = 10)

1. What are the drawbacks of an exoskeleton?

2. Describe the human skeleton in detail.