

Locomotion and Movement

Max Marks: 30

Time: 60 min

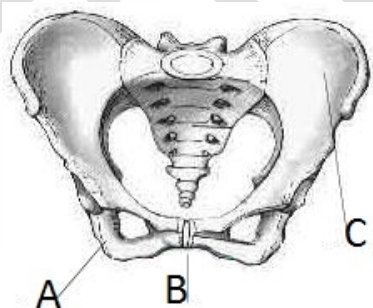
- 1 Mention two roles which cilia plays in *Paramecium*. 1 P302
- 2 What happens due to repeated activation of muscles? 1 P308
- 3 The axial skeleton has ____ bones while the appendicular skeleton has ____ bones 1 P309
- 4 The vertebral column has the bones in the following sequence. Identify the error in the sequence. 1 P310
Cervical – Thoracic – Lumbar – Coccyx – Sacrum

- 5 What are floating ribs? 1 P310
- 6 a) Name the bones of the middle ear. What is dicondylic skull? 2 P309-310

- 7  Identify the figure and write its characteristics. 2 P306

- 8 Write differences between red and white muscle fibres. 2 P308
- 9 Explain the following muscular disorders: 3 P312
- Myasthenia gravis
 - Tetany
 - Osteoporosis

- 10 Study the figure and label the parts marked a-c 1x3 P311

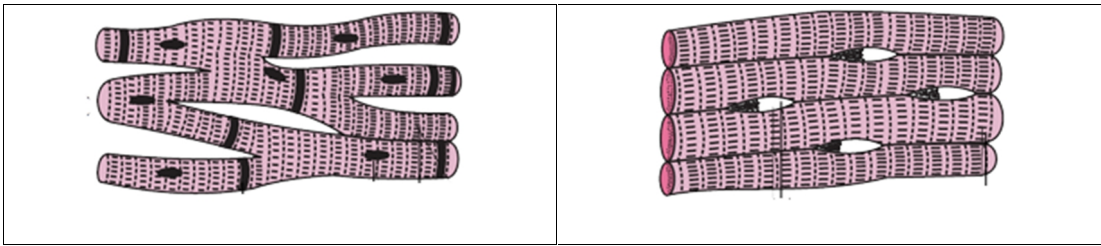


- 11 Give examples of the following joints in our body. 1x3 P312
- Fibrous joint
 - Cartilaginous joints
 - Pivot joint

12 Answer the following questions.

a) Study the two figures, identify and write where they are found in our body.

2 P303



b) Muscle bundles are held together by common collagenous connective tissue layer called _____.

1 P304

c) Muscle fibre is a syncytium. What does it mean?

1 P304

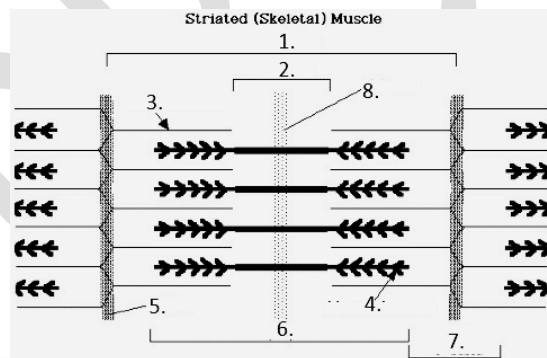
d) What are myofibrils?

1 P304

13 Read the questions carefully and answer the following questions.

a) Study the diagram and label the parts marked as 1, 2, 5 and 6

½ x4



b) Explain the mechanism of muscle contraction.

3 P306