Gr 10 Animal support systems

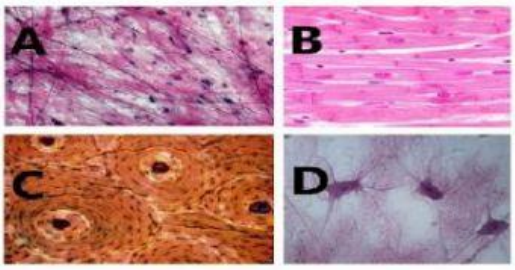
1. Advantages of an exoskeleton include... *

- ◯ provision of support and attachment for muscles
- ◯ they are thin and flexible at the joints for rapid movement
- ◯ chiton can grow and stretch as the animal grows
- ◯ options 1 and 2
- ◯ All of the above

2. A disadvantage of an endoskeleton is that... *

- ◯ the body is flexible due to joints
- ◯ it protects internal organs
- ◯ repair takes extended timeframes
- ◯ there are more positions for muscle attachment, improving muscle power

3. Which of the animal tissues depicted below, represents bone? *



- ◯ A
- ◯ B
- ◯ C
- ◯ D

4. Which one of the following does NOT form part of the appendicular skeleton? *

- ◯ tibia
- ◯ ulna
- ◯ clavicle
- ◯ sternum

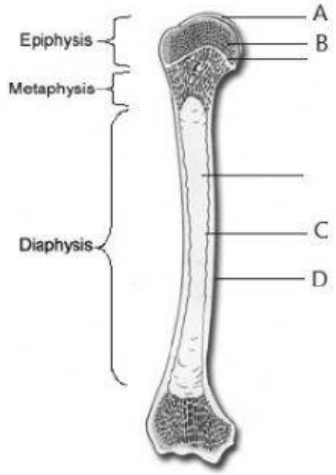
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5. Study the x-rays below, showing frontal and side view of the injury. The patient fell, landing on his hands and knees. Which bone is fractured? *



- ◯ Radius
- ◯ Ulna
- ◯ Tibia
- ◯ Fibula

6. Study the diagram of a long bone below and provide the correct labels for the parts labelled A, B, C and D respectively. *



- ◯ Head, Compact bone, Endosteum, Cartilage
- ◯ Cartilage, Spongy bone, Endosteum, Periosteum
- ◯ Head, Spongy bone, Red bone marrow, Endosteum
- ◯ Cartilage, Red bone marrow, Yellow bone marrow, Endosteum

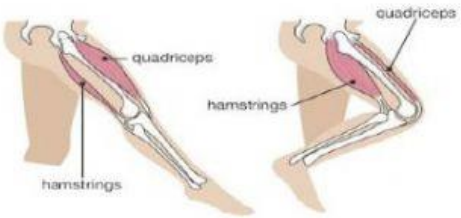
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7. What type of synovial joint is depicted below. *



- ◯ Hinge
- ◯ Pivot
- ◯ Ball-and-socket
- ◯ Gliding

8. Lesley bends her leg, as seen depicted below. The antagonistic pair of muscles are shown. Which one of the following actions produces the movement? *



- ◯ Contraction of the quadriceps and relaxation of the hamstrings
- ◯ Contraction of the hamstrings and relaxation of the quadriceps
- ◯ Contraction of the quadriceps and contraction of the hamstrings
- ◯ Relaxation of the hamstring and contraction of the quadriceps

9. What is the function of a ligament? *

- ◯ To join muscles to tendons
- ◯ To join muscles to bones
- ◯ To join the cells in compact bone closer together
- ◯ To join bones to bones

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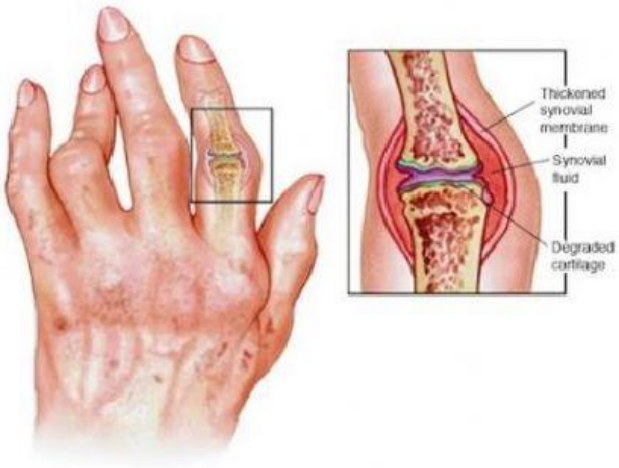
10. What makes bones strong? *

- ◯ Blood and marrow
- ◯ Collagen
- ◯ Calcium and phosphorous salts
- ◯ Calcium and sodium salts

11. The largest unit of muscle contraction is the... *

- ◯ Sacrolemma
- ◯ Sacroplasm
- ◯ Sarcomere
- ◯ Sacrofibril

12. What skeletal health condition/disease is depicted in the image below? *

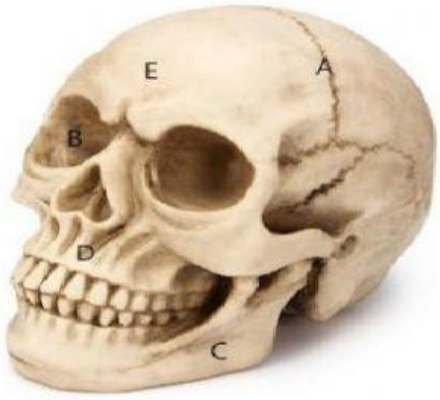


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- ◯ Rickets
- ◯ Osteoarthritis
- ◯ Osteoporosis
- ◯ Fracture

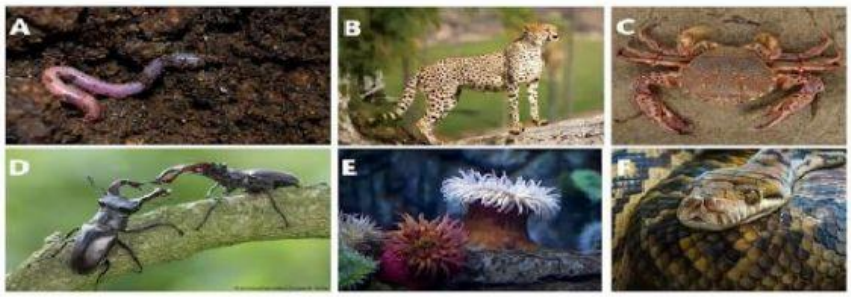
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13. Study the image below and provide labels for the parts of the human skull labelled A, C, D and E, respectively. *



- ◯ Cranium, Mandible, Teeth, Orbit
- ◯ Suture, Mandible, Maxilla, Cranium
- ◯ Suture, Maxilla, Mandible, Forehead
- ◯ Foramen magnum, Mandible, Maxilla, Cranium

14. Study the images below. Using the letters only, identify which animals have hydrostatic skeletons *



- ◯ E, F
- ◯ B, E
- ◯ A, E
- ◯ A, F

15. How many lumbar vertebrae are there in the human skeleton? *

- ◯ Five
- ◯ Seven
- ◯ Twelve
- ◯ Four

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