

Question 1

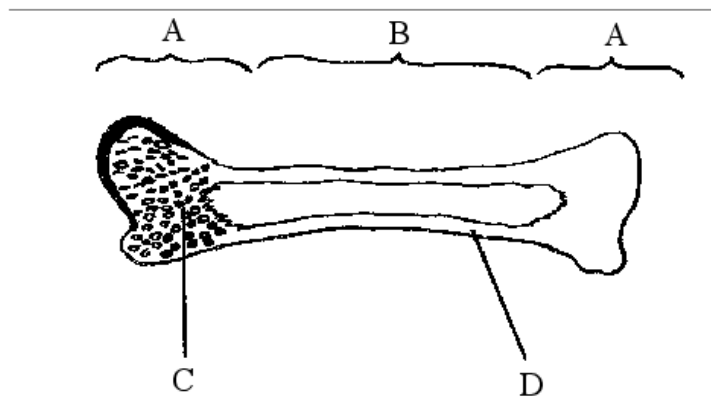
11. (a) (i) Name the **type** of joint shown in the diagram.
 (ii) Name the structure labelled A, which attaches muscle to bone.
 (iii) Explain what is meant by an *antagonistic muscle pair*.

(9)



Question 2

4. (a) The diagram shows a longitudinal section of a long bone.



- (i) Name the parts of the diagram labelled A, B, C, D.

A. _____ B. _____

C. _____ D. _____

- (ii) Where are the discs in the human backbone? _____

- (iii) What is the function of the discs in the human backbone? _____

- (b) Give a role for **each** of the following in the human body:

(i) Yellow bone marrow. _____

(ii) Red bone marrow. _____

Question 3

- (a)
 - (i) Draw a diagram to show the structure of a synovial joint. Label **three** parts of the joint that you have drawn, other than bones.
 - (ii) Explain the functions of the three parts that you have labelled.
 - (iii) Name a disorder of the musculoskeletal system.
 - (iv) Give a possible cause of the disorder that you have named in (iii) and suggest a treatment for it.

(30)

Question 4

- (a) Answer the following questions in relation to the human musculoskeletal system.
 - (i) Give **three** roles of the skeleton.
 - (ii) Explain what is meant by the axial skeleton.
 - (iii) Give a function for each of the following:
 - 1. Red marrow,
 - 2. Cartilage,
 - 3. Tendon.
 - (iv) Explain what is meant by an antagonistic muscle pair and give an example in the human body.
 - (v) Suggest a treatment for a named disorder of the musculoskeletal system.

(30)