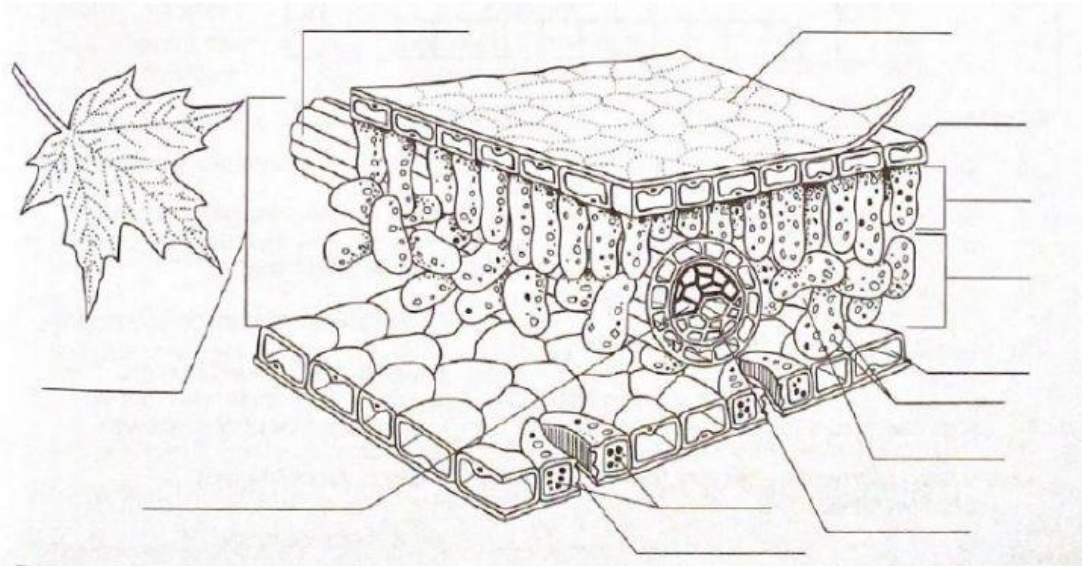


3.2 The diagram below shows a dicotyledonous leaf.



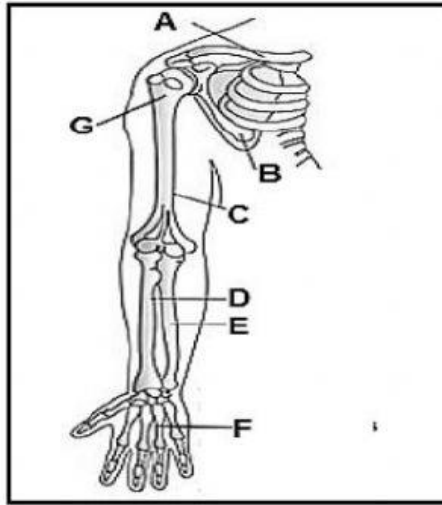
3.2.1 Give TWO functions of this plant organ. (2)

3.2.2 What is the collective name for the parts labelled **A** and **C**? (1)

3.2.3 Name the metabolic process that takes place at **B**. (1)

3.2.4 Identify the **LETTER** and **NAME** of the tissue with compact cells where photosynthesis takes place. (2)

3.3 The diagram below shows a part of a human skeleton.



3.3.1 Name the synovial joint that joins bone **C** to bones **D** and **E**. (1)

3.3.2 Give **LETTERS** of the bones that make up the pectoral girdle. (3)

3.3.3 Provide labels for parts numbered **F** and **G**. (2)

3.3.4 Write down the number of phalanges found in each hand. (1)

3.3.5 **TWO** sets of muscles are attached to the front and back of the humerus respectively.

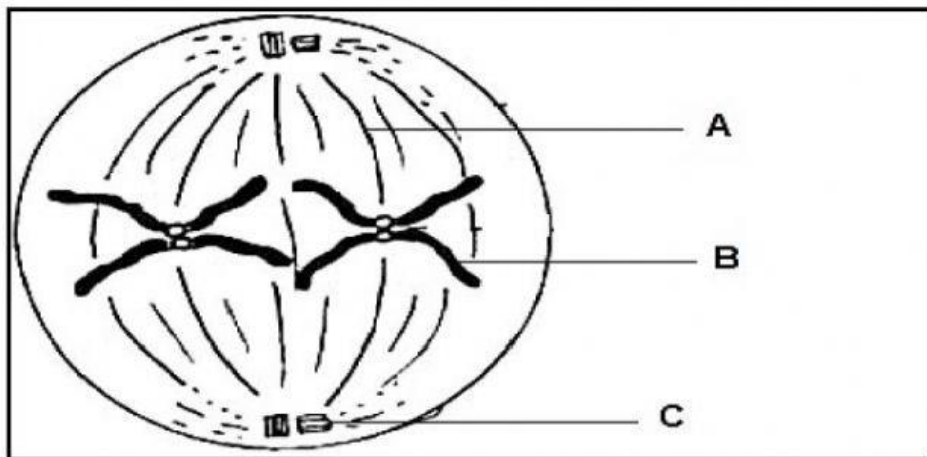
(a) Name these **TWO** muscles. (2)

(b) Name the substance that builds up and repairs muscle tissue. (1)

(c) Describe how these muscles function to bring about movement. (1)

(d) What would be the consequences if the muscle attached to the back of the humerus malfunctions? (1)

- 3.4 The diagram below shows a cell undergoing a phase in cell division called mitosis.



- 3.4.1 Identify the phase of mitosis represented above. (1)
- 3.4.2 Give ONE reason for your answer to QUESTION 3.4.1. (1)
- 3.4.3 Identify parts labelled A, B, and C. (3)
- 3.4.4 Name the phase that comes after the one shown above. (1)
- 3.4.5 How many chromosomes will be present in the cell shown above at the end of mitosis? (1)

3.4.6 What name is given to the abnormal and uncontrollable division of cells leading to the formation of a tumour? (1)

3.4.7 State THREE biological importance of mitosis. (3)
[50]

TOTAL SECTION B: 100
GRAND TOTAL: 150