

1.1.5 ... tissue functions to conduct impulses throughout the body.

- A connective
- B nerve
- C muscle
- D epithelial

1.1.6 What is the magnification of the eye piece if the total magnification is 40x and the objective lens is 5x?

- A 2x
- B 15x
- C 4x
- D 5x

1.1.7 The following statements refer to the appendicular skeleton:

- i ~~connects arms to the torso~~
- ii ~~connects arms to the pelvis~~
- iii ~~connects arms to the thorax~~
- iv ~~connects the pelvis to the legs~~

Which of the following combinations are correct?

- A ~~ii and iii only~~
- B ~~i and ii only~~
- C ~~i and iii only~~
- D ~~i and iv only~~

1.1.8 How many cells will be present after 4 mitotic divisions?

- A 
- B 
- C 
- D 

1.1.9 Which of the following cells make up phloem tissue?

- A ~~sieve tube elements and companion cells~~
- B ~~sieve tube elements and phloem parenchyma~~
- C ~~sieve tube elements and xylem~~
- D ~~sieve tube elements and collenchyma~~

1.1.10 ... is NOT an adaptation to decrease transpiration.

- A stomatal closure
- B stomatalia
- C stomatal closure during the night
- D ability of a stomata to re-open and close

[10x2=20]

1.2 Give the correct BIOLOGICAL TERM for each of the following statements. Write only the term next to the QUESTION NUMBER (1.2.1-1.2.8).

1.2.1 ~~Organism that feeds on dead organic matter~~

1.2.2 ~~Group of organisms that interact for mutual benefit and advantage in a community~~

1.2.3 ~~A structure that stores and releases energy in a cell~~

1.2.4 ~~Process of photosynthesis that produces glucose and oxygen from carbon dioxide and water~~

1.2.5 Site for protein synthesis.

1.2.6 ~~Process of cellular respiration that produces energy in a cell~~

1.2.7 Cells containing two sets of chromosomes.

1.2.8 ~~Movement of materials from one part of a plant to another part of the plant~~

[5x1=5]

1.3 Indicate whether each of the statements in COLUMN I applies to A ONLY, B ONLY, BOTH A and B or NONE of the items in COLUMN II. Write A only, B only, Both A and B or None, next to the QUESTION NUMBER (1.3.1-1.3.3).

	COLUMN I	COLUMN II
1.3.1	Plant organ responsible for transport	Root Stem
1.3.2	Movement of substances from a low concentration to a high concentration	Active transport Diffusion
1.3.3	Test for the presence of a reducing sugar	Benedict's solution Biuret's solution

[3x2=6]

1.4 The tables below are those of organic and inorganic compounds.

Complete the TWO tables by writing ONLY the ANSWER next to the QUESTION NUMBER (1.4.1 – 1.4.5) on your folio paper.

Name of compounds	Molecular compound	Importance of compound
Carbon dioxide	1.4.1	Photosynthesis
Water	1.4.2	Transpiration Stomata
1.4.3	Ammonia	1.4.4

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R Sandford



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