

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 torso~~

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 phloem fibers~~

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 are dependent on each other for survival~~

1.2.3 ~~A structure that stores genetic information and is made of DNA~~

1.2.4 ~~Space where a population of cells grows together in a regular pattern and is divided into smaller units~~

1.2.5 Site for protein synthesis.

1.2.6 ~~Space between two cells where they are joined and allows for the passage of substances~~

1.2.7 Cells containing two sets of chromosomes.

1.2.8 ~~Movement of materials from one part of the body to another part of the body~~

[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
Hydrogen	1.4.2	Respiration Energy source
1.4.3	Ammonia	1.4.4

Grade 10 Life Sciences P1 November 2012 Memorandum

J Ma



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