

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 ~~apertures are found in the humerus~~
- ii ~~apertures are found in the radius~~
- iii ~~apertures are found in the ulna~~
- iv ~~apertures are found in the scapula~~

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 ~~sunken stomata~~
- B ~~stomatalia~~
- C ~~sunken stomata surrounded by thick lips~~
- D ~~ability of a stomata to 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 ~~organelle that is the site of protein synthesis~~

1.2.2 ~~process by which a cell takes in substances from its environment~~

1.2.3 ~~process by which a cell takes in substances from its environment~~

1.2.4 ~~process by which a cell takes in substances from its environment~~

1.2.5 Site for protein synthesis.

1.2.6 ~~process by which a cell takes in substances from its environment~~

1.2.7 Cells containing two sets of chromosomes.

1.2.8 ~~movement of substances from one part of the plant to another~~

[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                                   | <del>Root</del><br><del>Stem</del>                             |
| 1.3.2 | Movement of substances from a low concentration to a high concentration | <del>Active transport</del><br><del>Diffusion</del>            |
| 1.3.3 | Test for the presence of a reducing sugar                               | <del>Benedict's solution</del><br><del>Biuret's solution</del> |

[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    |
|---------------------------|--------------------|---------------------------|
| <del>Carbon dioxide</del> | 1.4.1              | <del>Photosynthesis</del> |
| <del>Water</del>          | 1.4.2              | <del>Transpiration</del>  |
| 1.4.3                     | <del>Ammonia</del> | 1.4.4                     |

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