

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 between~~
- ii ~~apertures are found part of the~~
- iii ~~apertures are found within the bone~~
- iv ~~apertures are found in the joint~~

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 ~~stomata~~
- C ~~stomata that are closed at the night~~
- 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	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
1.4.3	Ammonia	1.4.4

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Melissa Stewart, Nancy Chesley



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Science Fair Handbook Dorothy J. T. Terman, 2005 Guide for creating a school science fair teaching students how to use the scientific method while creating science projects Perfect Pairs, 3-5 Melissa Stewart, Nancy Chesley, 2023-10-10 Hands on lessons can be fun and compelling but when it comes to life science they aren't always possible practical effective or safe Children can't follow wolves as they hunt elk visit a prehistoric swamp or shrink down to the size of a molecule and observe photosynthesis firsthand But they can explore a whole world of animals plants and ecosystems through the pages of beautifully illustrated science themed picture books Perfect Pairs which marries fiction and nonfiction picture books focused on life science helps educators think about and teach life science in a whole new way Each of the twenty lessons in this book is built around a pair of books that introduces a critical life science concept and guides students through an inquiry based investigative process to explore that idea from life cycles and animal environment interactions to the inheritance of traits and the critical role of energy in our world Each lesson starts with a Wonder Statement and comprises three stages Engaging Students features a hands on activity that captures student interest uncovers current thinking and generates vocabulary The heart of the investigative process Exploring with Students spotlights the paired books as the teacher reads aloud and helps students find and organize information into data tables Encouraging Students to Draw Conclusions shows students how to review and analyze the information they have collected Bringing high quality science themed picture books into the classroom engages a broad range of students addresses the Performance Expectations outlined in the Next Generation Science Standards and supports the goals of the Common Core State Standards for English Language Arts Even if you are science shy Perfect Pairs can help you become a more confident teacher whose classroom buzzes with curious students eager to explore their natural world **ERIC Educational Documents Index, 1966-69: Major descriptors** ,1970 **ERIC Educational Documents Index** Educational Resources Information Center (U.S.), 1966 A subject author institution index which provides titles and accession numbers to the document and report literature that was announced in the monthly issues of Resources in education earlier called Research in education ERIC Educational Documents Index, 1966-1969: Minor descriptors. Author index CCM Information Corporation, 1970 Government Reports Announcements & Index ,1995

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web oct 28 2019 the algorithm couldn't be entirely linear because it would get stuck it would produce nothing but zeros forevermore once it encountered an input sequence of all zeros so technically a lfsr is an nearly always linear feedback shift register it's linear for $2^n - 2$ inputs and nonlinear for 2 special inputs a lfsr is more general

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web in digital signal processing a linear feedback shift register or lfsr is a shift register where the input bit is a linear function of its previous state a common linear function of single bits is the xor

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web a linear feedback shift register lfsr is a shift register in which some of its outputs are connected to the input through some logic gates typically an xor a wide variety of bit patterns can be generated inexpensively including pseudo random sequences can be used as a noise generator

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web in computing a linear feedback shift register lfsr is a shift register whose input bit is a linear function of its previous state the most commonly used linear function of single bits is exclusive or xor thus an lfsr is most often a shift register whose input bit is driven by the xor of some bits of the overall shift register value

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web feb 17 2013 the berlekamp massey algorithm is an iterative algorithm that solves the following problem given a sequence $s_0 s_1 s_2 \dots s_{n-1}$ of elements of a field find the shortest linear feedback shift register lfsr that generates this sequence here lfsr is a linear array of n elements with initial value