

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 the hand to the forearm~~
- ii. ~~connects the forearm to the hand~~
- iii. ~~connects the hand with the body~~
- iv. ~~connects the forearm~~

Which of the following combinations are correct?

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

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

- A. ~~open stomata~~
- B. ~~stomata~~
- C. ~~stomata with guard cells on the upper~~
- D. ~~ability of a stomata to open and close~~

[1x2=00]

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 ~~light dependent reaction~~
- 1.2.2 ~~the part of the cell that contains the chromosomes~~
- 1.2.3 ~~the process of a cell dividing into two daughter cells~~
- 1.2.4 ~~the process of a cell dividing into four daughter cells~~
- 1.2.5 Site for protein synthesis.
- 1.2.6 ~~the process of a cell dividing into two daughter cells~~
- 1.2.7 Cells containing two sets of chromosomes.
- 1.2.8 ~~the process of a cell dividing into two daughter cells~~

[6x1=6]

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	Diffusion Osmosis
1.3.3	To test for the presence of a reducing sugar	Ammonium hydroxide Benedict'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	Respiration
1.4.3	Glucose	1.4.4

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Ian McAuley, Miriam Lyons



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Chemical Energy from Natural and Synthetic Gas Yatish T. Shah, 2017-03-16 Commercial development of energy from renewables and nuclear is critical to long term industry and environmental goals However it will take time for them to economically compete with existing fossil fuel energy resources and their infrastructures Gas fuels play an important role during and beyond this transition away from fossil fuel dominance to a balanced approach to fossil nuclear and renewable energies *Chemical Energy from Natural and Synthetic Gas* illustrates this point by examining the many roles of natural and synthetic gas in the energy and fuel industry addressing it as both a transition and end game fuel The book describes various types of gaseous fuels and how they are recovered purified and converted to liquid fuels and electricity generation and used for other static and mobile applications It emphasizes methane syngas and hydrogen as fuels although other volatile hydrocarbons are considered It also covers

storage and transportation infrastructure for natural gas and hydrogen and methods and processes for cleaning and reforming synthetic gas The book also deals applications such as the use of natural gas in power production in power plants engines turbines and vehicle needs Presents a unified and collective look at gas in the energy and fuel industry addressing it as both a transition and end game fuel Emphasizes methane syngas and hydrogen as fuels Covers gas storage and transport infrastructure Discusses thermal gasification gas reforming processing purification and upgrading Describes biogas and bio hydrogen production Deals with the use of natural gas in power production in power plants engines turbines and vehicle needs

Governomics Ian McAuley, Miriam Lyons, 2015-05-01 People have good reason to demand decent public education and a well funded health system to yearn for an economy that doesn't trash the environment or for a smaller gap between rich and poor Almost without exception sound economics is on their side We've grown used to public debates that pit people and the planet against an abstract distorted image of the economy but it doesn't have to be this way Governomics shows that an emaciated state is bad for business and that standing up for government means standing up for a public sector that truly serves the public Everybody knows governments are wasteful incompetent and a drag on the economy But if you're not sure that's true read this book Ross Gittins Sydney Morning Herald and The Age Governomics shows that a market economy can only work when sustained by a strong and active public sector It will inject some much needed economic sanity into conversations on the role of government in Australia John Quiggin Australian Research Council Laureate Fellow University of Queensland

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