

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 8x?

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

1.1.7 The following statements refer to the appendicular skeleton:

- i ~~osteoclasts~~
- ii ~~osteoclasts~~
- iii ~~osteoclasts~~
- iv ~~osteoclasts~~

Which of the following combinations are correct?

- A ~~osteoclasts~~
- B ~~osteoclasts~~
- C ~~osteoclasts~~
- D ~~osteoclasts~~

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 ~~meristematic tissue~~
- B ~~meristematic tissue~~
- C ~~meristematic tissue~~
- D ~~meristematic tissue~~

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

- A ~~green leaves~~
- B ~~green leaves~~
- C ~~green leaves~~
- D ~~green leaves~~

[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 ~~epithelial membrane~~

1.2.2 ~~secretory membrane~~

1.2.3 ~~Adipose tissue~~

1.2.4 ~~Response of a plant to a stimulus~~

1.2.5 ~~Site for protein synthesis~~

1.2.6 ~~Reproductive structure in a flowering plant~~

1.2.7 Cells containing two sets of chromosomes

1.2.8 ~~Non-vascular plant that has no leaves, flowers or stems~~

[8x1=8]

1.3 Indicate whether each of the statements in COLUMN I applies to **g 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	Roots Leaves
1.3.2 Movement of substances from a low concentration to a high concentration	osmosis Active transport
1.3.3 To test for the presence of a reducing sugar	Starch Glucose

[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 – 1.4.8) on your folio paper.

Name of compound	Mass/mole of compound	Importance of compound
Water	1.4.1	Glucose
Water	1.4.2	Glucose
1.4.3	Glucose	1.4.4

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Ian McAuley, Miriam Lyons

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Biosafety of Genetically Modified Organisms, Volume II Andrew F. Roberts, Joerg Romeis, Karen Hokanson, Reynaldo Ariel Alvarez Morales, 2020-10-27 This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series. They are collections of at least ten articles all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area. Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact *Jordan and the Arab Uprisings* Curtis R. Ryan, 2018-06-26 In 2011 as the Arab uprisings spread across the Middle East, Jordan remained more stable than any of its neighbors. Despite strife at its borders and an influx of refugees connected to the Syrian civil war and the rise of ISIS as well as its own version of the Arab Spring with protests and popular mobilization demanding change, Jordan managed to avoid political upheaval. How did the regime survive in the face of the pressures unleashed by the Arab uprisings? What does its resilience tell us about the prospects for reform or revolutionary change? In *Jordan and the Arab Uprisings*, Curtis R. Ryan explains how Jordan weathered the turmoil of the Arab Spring. Crossing divides between state and society, government and opposition, Ryan analyzes key features of Jordanian politics including Islamist and leftist opposition parties, youth movements and other forms of activism as well as struggles over elections, reform and identity. He details regime survival strategies, laying out how the monarchy has held out the possibility of reform while also seeking to coopt and contain its opponents. Ryan demonstrates how domestic politics were affected by both regional unrest and international support for the regime and how regime survival and security concerns trumped hopes for greater change. While the Arab Spring may be over, Ryan shows that political activism in Jordan is not and that struggles for reform and change will continue. Drawing on extensive fieldwork and interviews with a vast range of people from grassroots activists to King Abdullah II, *Jordan and the Arab Uprisings* is a definitive analysis of Jordanian politics before, during and beyond the Arab uprisings.

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 with 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 biohydrogen production. Deals with the use of natural gas in power production in power plants engines turbines and vehicle needs.

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Convergent Media and Privacy Tim Dwyer, 2015-10-19. A lot of personal data is being collected and stored as we use our media devices for business and pleasure in mobile and online spaces. This book helps us contemplate what a post-Facebook or post-Google world might look like and how the tensions within capitalist information societies between corporations, government and citizens might play out.

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Homeland Security, its Law and its State Christos Boukalas, 2014-03-26. This book assesses the impact of post 9/11 domestic counterterrorism policy on US political life. It examines political discourse, law, institutional architecture and state population relations and shows that homeland security is a project with wide-ranging implications for democratic institutions and culture. These implications are addressed through a novel approach that treats law and the state as social relations and relates developments in law to those in the state and in social dynamics. On this basis the book examines the new political representations in counterterrorism discourse especially regarding the relation between the state and the population. It examines the form and content of counterterrorism law, the powers it provides and the structure and functions it prescribes for the state. By focusing on the new Department of Homeland Security and the restructuring of the intelligence apparatus the book assesses the new intelligence-led policing model. Finally it examines forms of popular support and resistance to homeland security to discuss

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