

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

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 stomatal closure
- B stomatal opening
- 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 ~~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 cell 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> <del>Stem</del>
1.3.2	Movement of substances from a low concentration to a high concentration	<del>Active transport</del> <del>Diffusion</del>
1.3.3	To test for the presence of a reducing sugar	<del>Benedict's solution</del> <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

# Life Science Paper November 2012 Memorandum

**Ian McAuley, Miriam Lyons**



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*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 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

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      **Managerialism** T. Klikauer, 2013-09-05 Most people know what management is but often people have vague ideas about Managerialism This book introduces Managerialism and its ideology as a colonising project that has infiltrated nearly every eventuality of human society      *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 citizenship and state

population relations The author concludes that homeland security has turned the US into a hybrid polity the legal and political institutions of democracy remain intact but their content and practices become authoritarian and exclude the population from politics These legal and political forms remain operative beyond counterterrorism in the context of the present economic crisis They are a permanent configuration of power This book is an indispensable companion for students of counter Terrorism and Security Studies Politics Human Rights Constitutional and Criminal Law American Studies and Criminology

*Geotechnical Engineering for the Preservation of Monuments and Historic Sites* Emilio Bilotta,Alessandro Flora,Stefania Lirer,Carlo Viggiani,2013-05-10 All the traces of historic heritage are a fundamental part of our environment and reward us in the form of cultural enrichment with the ability to have a positive effect both on our lifestyle and economy Therefore the preservation of ancient monuments historic towns and sites has increasingly drawn the attention of public opinion governmental

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 $\text{Mg}(\text{OH})_2 + 2\text{HNO}_3 \rightarrow \text{Mg}(\text{NO}_3)_2 + 2\text{H}_2\text{O}$   
 $2\text{NaClO}_3 \rightarrow 2\text{NaCl} + 3\text{O}_2$   
 $4\text{Al} + 3\text{O}_2 \rightarrow 2\text{Al}_2\text{O}_3$   
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