

1.1.1 Which ONE of the following maintains the shape of the eyeball?

- A Cornea
- B Lens
- C Vitreous humour
- D Retina

1.1.2 The choroid ...

- A is richly supplied with blood vessels.
- B contains photoreceptors.
- C refracts the light rays.
- D sends impulses to the brain.

1.1.3 Which ONE of the following occurs immediately after fertilisation?

- A The blastula, which is a hollow ball of cells, is formed by meiosis.
- B The morula, which is a hollow ball of cells, is formed by meiosis.
- C The blastula, which is a solid ball of cells, is formed by mitosis.
- D The morula, which is a solid ball of cells, is formed by mitosis.

1.1.4 On a hot day ...

- A less blood flows to the surface of the skin.
- B the sweat glands become inactive.
- C more blood flows to the surface of the skin.
- D vasoconstriction takes place.

# March 2014 Question Paper Life Science

**SA Adler**



## **March 2014 Question Paper Life Science:**

**Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenges** Jonathan E. Suk, Kathleen M. Vogel, Amanda Jane Ozin, 2015-06-04 In September 2011 scientists announced new experimental findings that would not only threaten the conduct and publication of influenza research but would have significant policy and intelligence implications The findings presented a modified variant of the H5N1 avian influenza virus hereafter referred to as the H5N1 virus that was transmissible via aerosol between ferrets These results suggested a worrisome possibility the existence of a new airborne and highly lethal H5N1 virus that could cause a deadly global pandemic In response a series of international discussions on the nature of dual use life science arose These discussions addressed the complex social technical political security and ethical issues related to dual use research This Research Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and international perspectives

**The metabolic pathways and environmental controls of hydrocarbon biodegradation in marine ecosystems** Joel E. Kostka, Andreas P. Teske, Samantha B. Joye, Ian Head, 2015-05-15 Biodegradation mediated by indigenous microbial communities is the ultimate fate of the majority of oil hydrocarbon that enters the marine environment The aim of this Research Topic is to highlight recent advances in our knowledge of the pathways and controls of microbially catalyzed hydrocarbon degradation in marine ecosystems with emphasis on the response of microbial communities to the Deepwater Horizon oil spill in the Gulf of Mexico In this Research Topic we encouraged original research and reviews on the ecology of hydrocarbon degrading bacteria the rates and mechanisms of biodegradation and the bioremediation of discharged oil under situ as well as near in situ conditions

White Paper on Science and Technology, 2015

**Understanding West Africa's Ebola Epidemic** Ibrahim Abdullah, Ismail Rashid, 2017-10-15 From 2013 to 2015 over 11 000 people across West Africa lost their lives to the deadliest outbreak of the Ebola virus in history Crucially this epidemic marked the first time the virus was able to spread beyond rural areas to major cities overturning conventional assumptions about its epidemiology With backgrounds ranging from development to disease control the contributors to this volume some of them based in countries affected by the Ebola epidemic consider the underlying factors that shaped this unprecedented outbreak While championing the heroic efforts of local communities and aid workers in halting the spread of the disease the contributors also reveal deep structural problems in both the countries and humanitarian agencies involved which hampered the efforts to contain the epidemic Alarming they show that little has been learned from these events with health provision remaining underfunded and poorly equipped to deal with future outbreaks Such issues they argue reflect the wider challenges we face in tackling epidemic disease in an increasingly interconnected world

**The Horn Engaging the Gulf** Aleksy Ylönen, 2023-12-28 An examination of the recent intensification of relations between the states of the Horn of Africa and the Gulf powers

**Yearbook of International Organizations 2013-2014 (Volumes 1A-1B)** Union of International

Associations,2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events     **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons,2014  
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