

Date: September 2024

Time: 2 hours

Total: 80



QUESTIONS	TYPE OF QUESTION	TOPIC	MARK ALLOCATION
1.1	Multiple choice	Animal nutrition Human alimentary canal Mechanical digestion	10
1.2	Terminology	Absorption and assimilation	1
1.3	Matching accounts	Respiration, food allergies, tooth decay, alcohol and drug abuse	1
1.4	Diagram with question	Human alimentary canal	14
QUESTION 1 – 41 MARKS			
2.1	Diagram with question	Homeostasis	10
2.2	Investigation	Gasous exchange -Drawing graphs -Calculations	14
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QUESTION 3 – 11 MARKS			
TOTAL: 80			

SECTION A

Question 1

1.1 Different options are given as possible answers to the following questions. Choose the correct answer and write only the letter (A to D) next to the question number (1.1.1 to 1.1.10) on the FOLIO PAPER ex. 1.1.11 E.

1.1.1 Small digested nutrients are taken up into the bloodstream.

- A. Ingestion
- B. Assimilation
- C. Absorption
- D. Egestion

1.1.2 The muscular tube that connects the mouth cavity to the stomach.

- A. Oesophagus
- B. Epiglottis
- C. Trachea
- D. Larynx

1.1.3 The colon absorbs water from indigestible food in the alimentary canal.

- A. Duodenum
- B. Ileum
- C. Large intestine
- D. Small intestine

1.1.4 The liver secretes...

- A. bile that helps to break down fat
- B. saliva that contains enzymes
- C. stones bile from the liver before it is secreted into the duodenum of the small intestine
- D. pancreatic juice that contains enzymes

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Etzel Cardaña, Enrico Facco



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SET Life Science: Solved Exam Questions Kailash Choudhary, D. Sondge, R.P. Saran, N. Soni, 2017-12-01 The present book SET Life Science Solved Papers is specially developed for the aspirants of SET Life Sciences Examinations This book includes previous solved papers SET Life Science papers of Maharashtra Andhra Pradesh Karnataka Tamil Nadu Kerala Gujarat and Rajasthan Main objective of this book is to develop confidence among the candidates appearing for SET examination in the field of Life Sciences Both fundamental and practical aspects of the subject have been covered by solved questions This book meets the challenging requirements of CSIR NET GATE IARI BARC and Ph D entrance of various Indian universities Risk

Regulation in the Internal Market Maria Weimer, 2019-03-13 This book offers a topical inquiry into the legal and political limits of EU regulation in the field of risk and new technologies surrounded by techno scientific complexity uncertainty and societal contestation It uses agricultural biotechnology as a paradigmatic example to illustrate the complex intertwinement between environmental public health economic and social concerns in risk regulation Weimer analyses the drawbacks of the EU approach to agricultural biotechnology showing that its reductionism i e the narrow understanding of GMO risks as well as the exclusion of broader societal concerns related to environmental and social sustainability has undermined both the legitimacy and effectiveness of EU regulation in this area Resistance to this approach however has also triggered legal innovations prompting us to re think EU internal market law including the way in which it manages the tensions between unity and diversity and between social and economic concerns This text offers fresh and original insights into how far the EU can go in harmonizing regulatory approaches to risk At the same time it proposes new ways of re thinking EU risk regulation to make it more responsive to different perspectives on risk and technology A unique feature of this book is that it contributes to various strains of scholarship including risk regulation internal market law public administration and studies of governance and regulation as well as connecting these themes to broader debates about the legitimacy of European integration and new ways of differentiated integration As a result it assists in re imagining the EU internal market and its regulation as a site of diversity Pandora's Gamble Alison Young, 2023-04-25 Named to Kirkus Reviews Best Books of 2023

A remarkable book The New York Times This fearless deeply reported book about laboratory accidents asks the haunting question some elite scientists don't want the public to entertain Did the COVID 19 pandemic start with a lab leak in Wuhan China This is an obvious question Yet there's been an extraordinary effort by government officials in China as well as leading scientific experts in the United States and around the world to shut down any investigation or discussion of the lab leak theory In private however some of the world's elite scientists have seen a lab accident as a very real and horrifying possibility They know what the public doesn't Lab accidents happen with shocking frequency Even at the world's best run labs That's among the revelations from Alison Young the award winning investigative reporter who has spent nearly 15 years uncovering shocking safety breaches at prestigious U S laboratories for USA Today and other respected news outlets In Pandora's

Gamble Young goes deep into the troubling history and enormous risks of leaks and accidents at scientific labs. She takes readers on a riveting journey around the world to some of the worst lab mishaps in history including the largely unknown stories of the lab workers at the U S Army's Camp Detrick who suffered devastating infections at alarming rates during World War II. And her groundbreaking reporting exposes for the first time disturbing new details about recent accidents at prestigious laboratories and the alarming gaps in government oversight that put all of us at risk. Sourced through meticulous reporting and exclusive interviews with key players including Dr Anthony Fauci former CDC Director Tom Frieden and others, Young's examination reveals that the only thing rare about lab accidents is the public rarely finds out about them. Because when accidents happen, powerful people and institutions often work hard to keep the information secret. *White Paper on Science and Technology*, 2015. Non-Ordinary Mental Expressions Etzel Cardena, Enrico Facco, 2015-03-16. Nothing provided. *The Microbial Regulation of Global Biogeochemical Cycles* Johannes Rousk, Per Bengtson, 2014-10-17. Global biogeochemical cycles of carbon and nutrients are increasingly affected by human activities. So far, modeling has been central for our understanding of how this will affect ecosystem functioning and the biogeochemical cycling of carbon and nutrients. These models have been forced to adopt a reductive approach built on the flow of carbon and nutrients between pools that are difficult or even impossible to verify with empirical evidence. Furthermore, while some of these models include the response in physiology, ecology, and biogeography of primary producers to environmental change, the microbial part of the ecosystem is generally poorly represented or lacking altogether. The principal pool of carbon and nutrients in soil is the organic matter. The turnover of this reservoir is governed by microorganisms that act as catalytic converters of environmental conditions into biogeochemical cycling of carbon and nutrients. The dependency of this conversion activity on individual environmental conditions such as pH, moisture, and temperature has been frequently studied. On the contrary, only rarely have the microorganisms involved in carrying out the processes been identified, and one of the biggest challenges for advancing our understanding of biogeochemical processes is to identify the microorganisms carrying out a specific set of metabolic processes and how they partition their carbon and nutrient use. We also need to identify the factors governing these activities and if they result in feedback mechanisms that alter the growth activity and interaction between primary producers and microorganisms. By determining how different groups of microorganisms respond to individual environmental conditions by allocating carbon and nutrients to production of biomass, CO₂, and other products, a mechanistic as well as quantitative understanding of formation and decomposition of organic matter and the production and consumption of greenhouse gases can be achieved. In this Research Topic supported by the Swedish research councils programme Biodiversity and Ecosystem Services in a Changing Landscape BECC, we intend to promote this alternative framework to address how cycling of carbon and nutrients will be altered in a changing environment from the first principle mechanisms that drive them, namely the ecology, physiology, and biogeography of microorganisms and on up to emerging global

biogeochemical patterns This novel and unconventional approach has the potential to generate fresh insights that can open up new horizons and stimulate rapid conceptual development in our basic understanding of the regulating factors for global biogeochemical cycles The vision for the research topic is to facilitate such progress by bringing together leading scientists as proponents of several disciplines By bridging Microbial Ecology and Biogeochemistry connecting microbial activities at the micro scale to carbon fluxes at the ecosystem scale and linking above and belowground ecosystem functioning we can leap forward from the current understanding of the global biogeochemical cycles

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