Life Science

Grade 12

PAPER 1



Oute: SEPTEMBER 2024

Time: 2 % HOURS

Mark: 550

#### INSTRUCTIONS AND INFORMATION

Read the following instruction carefully before answering the questions.

- Answer ALL questions.
- Write ALL the answers on the provided FOLIO PAPER.
- RIOLE OFF after each question.
- 4 Start each section on a NEW page.
- Number the answers correctly according to the numbering system used in this question paper.
- Present your answers according to the instructions for each question.
- Do ALL drawings in pencil and label them in blue pen-
- Draw slagrams or flow charts only when asked to do so.
- The diagrams in this question paper are NOT all drawn to scale.
- 10 You may use a non-programmable calculator, protractor, and compans.
- 111 You may NOT use graph paper.
- 12. Write neatly and legibly.

EXAM AGREEMENT	
 (Name & Sumane); Grade	

hereby acknowledge that I will abide by all examination rules objudited below during the writing of my LIFE. SCIENCE evans.

#### RULES:

- I will not have any electronic equipment in my possession (cell phones, smart watches and earphones).
- 2. I will not cause any disruption during this exam in the exam venue.
- 3. I will be honest at all times.

All rules, as discussed with me, will be honoured and obeyed.

Learner Signature

#### SECTION A Question 1

- Various options are provided 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, for example 1.1.6 E.
- 1.1.1 Hollow, pear-shaped organ.
  - Vagina.
  - Uherus.
  - Fallopian tubes
  - Placents.
- 1.1.2 Choose the letter that does not explain the process of oogenesis.
  - The diploid germinal epithelium cells of the ovaries go through the process of mitosis. to form many folicies.
  - Every 21 days, the folicle stimulating hormone (FSH) stimulates one folicle. Only one cell inside of that folicie enlarges and goes through the process of meiosis.
  - Out of the 4 haploid cells produced through melosis, only one cell will survive to form a mature ovum.
  - The other three cells from meiosis will degenerate.
- 1.1.3 Before copulation the male sperm is stored temporarily in the ...
  - seminal vesicles.
  - sorotum.
  - prostate pland
  - epididymis.
- 1.1.4 Structure that receives a stimulus and converts it into an impulse.
  - autonomic nervous system.
  - effector
  - stimulus.
  - receptor

REPORT.

## **Life Science September 2013 Preparatory Examination**

**Brian Harvey** 

#### **Life Science September 2013 Preparatory Examination:**

**Independent Schools Yearbook 2012-2013** none,2013-06-20 The highly respected book of reference of sought after Independent Schools in membership of the Independent Schools Council's Associations HMC GSA The Society of Heads IAPS XVIII International Coal Preparation Congress Vladimir Litvinenko, 2016-10-21 This book gathers ISA and COBIS technical and scientific articles by leading experts from 15 countries and originally presented at the world's most prestigious forum on coal preparation the XVIII International Coal Preparation Congress Topics addressed include the mineral resources basis of the coal industry problems and prospects of development in the coal industry crushing grinding screening and classification processes used at sorting plants coal processing and briquette factories review of plant designs and operations used around the world new developments in dense medium separators water based separation processes froth flotation and dewatering technologies and equipment for the dry separation of coal coal deep processing technologies and equipment energy generation as an area of coal deep processing and simulation and optimization software for separation processes In general the future of coal around the world is defined by its competitiveness As the cheapestform of fuel comparatively speaking coal undoubtedly continues to be in high demand around the world 10 Practice Tests for the SAT, 2020 **Edition** Princeton Review, 2019-05-07 Offering extra preparation to help achieve an excellent score on the SAT this comprehensive study guide provides 10 full length practice tests with detailed answer explanations as well as hands on exposure to the test with more than 1 500 questions nine sample prompts for the optional essay and one experimental section Book of Abstracts of the 66th Annual Meeting of the European Association for Animal Production EAAP scientific Original committee, 2023-09-04 This Book of Abstracts is the main publication of the 66th Annual Meeting of the European Federation for Animal Science 2015 in Warsaw Poland It contains abstracts of the invited papers and contributed presentations The meeting addressed subjects relating to science and innovation Important problems were also discussed during the sessions of EAAP s nine Commissions Animal Genetics Animal Nutrition Animal Management and Health Animal Physiology Cattle Production Sheep and Goat Production Pig Production Horse Production and Livestock Farming Systems Food and Cooking Skills Education Anita Tull, 2018-01-29 Food and Cooking Skills Education FCSE is a complex mix of policy and practicality educational theory and pedagogy classroom and government policy This book shows how FCSE has been at the centre of a tussle between education and policy for decades It reviews how FCSE has grappled with various significant issues of concern that threaten to marginalise it and pose problems for educational practicalities as expectations are increased but resources are squeezed It assesses the debate about the significance and importance of acquiring practical food and cooking skills in a society where the purchase of ready made food has become commonplace and public knowledge of where our food comes from is noticeably lacking This has contributed to the escalating incidence of diet related diseases and the attendant cost to society and threatened environmental sustainability In turn governments have reacted by proposals to make practical

cooking skills a statutory National Curriculum subject as part of the armoury for tackling such costs Based on detailed research conducted across England and Wales as well as comparisons with thirty five other countries or states the author makes recommendations for policy to manage this challenge facing contemporary society The Vaccine Race Meredith Wadman, 2017-02-07 A real jewel of science history brims with suspense and now forgotten catastrophe and intrigue Wadman s smooth prose calmly spins a surpassingly complicated story into a real tour de force The New York Times Riveting The Vaccine Race invites comparison with Rebecca Skloot's 2007 The Immortal Life of Henrietta Lacks Nature The epic and controversial story of a major breakthrough in cell biology that led to the conquest of rubella and other devastating diseases Until the late 1960s tens of thousands of American children suffered crippling birth defects if their mothers had been exposed to rubella popularly known as German measles while pregnant there was no vaccine and little understanding of how the disease devastated fetuses In June 1962 a young biologist in Philadelphia using tissue extracted from an aborted fetus from Sweden produced safe clean cells that allowed the creation of vaccines against rubella and other common childhood diseases Two years later in the midst of a devastating German measles epidemic his colleague developed the vaccine that would one day wipe out homegrown rubella The rubella vaccine and others made with those fetal cells have protected more than 150 million people in the United States the vast majority of them preschoolers. The new cells and the method of making them also led to vaccines that have protected billions of people around the world from polio rabies chicken pox measles hepatitis A shingles and adenovirus Meredith Wadman's masterful account recovers not only the science of this urgent race but also the political roadblocks that nearly stopped the scientists She describes the terrible dilemmas of pregnant women exposed to German measles and recounts testing on infants prisoners orphans and the intellectually disabled which was common in the era These events take place at the dawn of the battle over using human fetal tissue in research during the arrival of big commerce in campus labs and as huge changes take place in the laws and practices governing who owns research cells and the profits made from biological inventions It is also the story of yet one more unrecognized woman whose cells have been used to save countless lives With another frightening virus measles on the rise today no medical story could have more human drama impact or urgency than The Vaccine Race Specification of Drug Substances and Products Christopher M. Riley, K. Lien Nguyen, 2024-09-22 Specification of Drug Substances and Drug Products is a fully comprehensive reference on Specification Setting for Pharmaceuticals There have been several recent developments in the ICH Guidelines which were not captured in previous editions notably the new guideline on Development of Analytical Procedure and the revisions to the validation guidelines and the specification guidelines This edition contains chapters discussing the unique requirements for the universal critical quality attributes as well as the specific tests required to characterize and control different types of products ranging in complexity from small molecules in immediate release oral dosage forms to complex products such as drug antibody conjugates and mRNA based products This substantially expanded

revision of the 2nd edition will serve as practical comprehensive reference for scientists managers educators and consultants involved in the development and regulation of pharmaceutical products Presents critical assessment potential impact and application of the recent revisions to ICH guidelines on method validation Q2 as well as the latest guideline on Analytical Method Development Q14 and the special regional requirements in non ICH regions Addresses comprehensive treatment of the development and validation of analytical methodologies used in the analysis control and specification of a variety of different types of dosage forms ranging from traditional oral solid dosage forms to proteins nRNA based drugs vaccines and gene therapy This book will also address drug device combination products such as digital drug delivery systems transdermal systems and inhalation products Presents detailed treatment of latest statistical approaches including new approaches to the treatment of validation data method specification setting and shelf life prediction based on stability data Brian Harvey, 2019-10-08 In 2019 China astonished the world by landing a spacecraft and rover on the far side of the Moon something never achieved by any country before China had already become the world's leading spacefaring nation by rockets launched sending more into orbit than any other China is now a great space superpower alongside the United States and Russia sending men and women into orbit building a space laboratory Tiangong and sending probes to the Moon and asteroids Roadmap 2050 promises that China will set up bases on the Moon and Mars and lead the world in science and technology by mid century China's space programme is one of the least well known but this book will bring the reader up to date with its mysteries achievements and exciting plans China has built a fleet of new powerful Long March rockets four launch bases tracking stations at home and abroad with gleaming new design and production facilities China is poised to build a large permanent space station bring back lunar rocks assemble constellations of communications satellites and send spaceships to Mars the moons of Jupiter and beyond A self sustaining lunar base Yuegong has already been simulated In space China is the country to watch Applied Olfactory Cognition Gesualdo M Zucco, Benoist Schaal, Mats Olsson, Ilona Croy, 2014-12-02 Foreword by Richard J Stevenson Macquarie University Australia It was long thought that the human nose might be able to discriminate somewhere in the order of 10 000 different odourants. The recent finding that the human nose can discriminate something like a trillion different smells serves as yet another reminder that we have again underestimated the capacity of our sense of smell Bushdid Magnasco Vosshall Keller 2014 This volume serves as a further corrective for anyone who should hold the view that olfaction is unimportant in human affairs. The papers presented in this ebook carefully collated and overseen by Aldo Zucco Benoist Schaal Mats Olsson and Ilona Croy showcase a large number of quite different reasons for studying the applied side of olfaction and indeed human olfaction in general The 23 contributions presented here cover a broad range of topics which illustrate contemporary interests in our field Although with a strong applied focus a noteworthy feature of this ebook is the richness of the theoretical perspectives that are developed These range from considerations of olfactory perception memory expertise and priming right the way through to receptor genetics These

contributions from many leading experts in the field will surely shape much of the applied work linking olfaction to disease which is a further focus of this ebook In respect to health and disease the chapters on aging pregnancy depression alcohol dependency and environmental odours present overviews and rich new data on many contemporary problems to which the study of olfaction is now contributing A particularly notable aspect of olfactory experience is the affective impact that odours can have on people and their lives The ebook covers some particularly intriguing aspects of work in this area with empirical studies investigating dissociations between wanting and liking stress reduction in the elderly mother infant bonding and the emotions that different odourants can evoke This affective line of work is nicely complemented by empirical studies on expertise the effect of odours on visual attention and the relationship between particular personality traits and interest in olfaction The gradual appropriation of methods from cognitive neuroscience into olfaction is also nicely represented in this ebook with at least three of the chapters reporting data using neuroimaging including a particular intriguing study looking at recognition of odours in mixtures Finally the close links between olfactory perception and sensory evaluation are also reflected in a chapter on wine I hope that readers of this e book will be struck as I have been in reading its various chapters how much olfaction affects our lives and how the study of this sense can enrich it References Bushdid C Magnasco M Vosshall L Keller A 2014 Humans can discriminate more than 1 trillion olfactory stimuli Science 343 1370 1372

COVID-19: Targeting Essential SARS-CoV-2 Proteins for Drug Discovery Andrzej Joachimiak, 2023-03-10 Textbook of Diagnostic Microbiology - E-Book Connie R. Mahon, Donald C. Lehman, George Manuselis, 2014-03-03 Providing a reader friendly building block approach to the essentials of diagnostic microbiology this accessible full color text helps you develop the problem solving skills necessary for success in the clinical setting This updated edition has new content on nanomedicine and HIV AIDS and the immunocompromised patient including the latest information on prevention treatment modalities and CDC guidelines Updated photos offer new examples of automated lab instruments while case studies review questions and learning objectives present information in an easy to learn way A building block approach encourages you to use previously learned information to sharpen your critical thinking and problem solving skills Full color design with many full color photomicrographs prepares you for the reality of diagnostic microbiology Learning objectives at the beginning of each chapter supply you with a measurable outcome to achieve by completing the material A case study at the beginning of each chapter provides you with the opportunity to form your own questions and answers through discussion points Issues to Consider boxes encourage you to analyze important points Bolded key terms at the beginning of each chapter equip you with a list of the most important and relevant terms in each chapter Points to Remember sections at the end of each chapter identify key concepts in a quick reference bulleted format Hands on procedures describe exactly what takes place in the micro lab making content more interesting and relevant Learning assessment questions at the conclusion of each chapter allow you to evaluate how well you have mastered material Agents of bioterrorism chapter furnishes you with the most current information about this hot topic Glossary of key terms at the end of the book supplies you with a quick reference for looking up definitions NEW Nanomedicine and HIV AIDS and the immunocompromised patient content supplies you with the latest information on prevention treatment modalities and CDC quidelines NEW Updated photos familiarize you with the equipment you ll use in the lab NEW Case Checks throughout each chapter tie content to case studies for improved understanding NEW An editable and printable lab manual provides additional opportunities to learn course content using real life scenarios with questions to reinforce concepts Review questions for each learning objective help you learn to think critically about the information in each chapter enhancing your comprehension and retention of material PUE, Chapterwise & Topicwise, Solved Papers (2017-2023), II PUC Class 12, English Oswaal Editorial Oswaal Karnataka 2nd PUC Question Bank Class 12 English | Chapterwise & Topicwise Previous Board, 2023-09-25 Solved Papers (2017-2024) | For Board Exams 2025 Oswaal Editorial Board, 2024-05-29 Description of the Product 100 % Updated for 2024 25 with Latest Reduced Karnataka PUE Syllabus Concept Clarity with Concept wise Revision Notes Mind Maps Mnemonics 100% Exam Readiness with Previous Year's Questions Board Scheme of Valuation Answers Valuable Exam Insights with 2000 NCERT Exemplar Questions Extensive Practice 2 Model Papers 3 Online Model Papers College Admissions Data Sourcebook West Edition , **Product Design and Testing for Automotive Engineering:** Volume II Young J. Chiang, Amy L. Chiang, 2024-09-17 Failure modes and effects analysis FMEA Reliability Product Development Design Process Test Procedures Explore Product Design and Testing for Automotive Engineering Volume II an essential guide reshaping vehicle manufacturing with unprecedented reliability As part of SAE International s DOE for Product Reliability Growth series this practical resource introduces cutting edge methodologies crucial for predicting and improving product reliability in an era of automotive electrification The book navigates statistical tolerance design showcasing how variability in part fabrication and assembly can enhance reliability and sustainability Key topics include Statistical tolerance design s impact on manufacturing and material selection focusing on non normal distributions effects on product assembly and cost Methods like maximum likelihood estimators and Monte Carlo simulations are used for assembly strategy synthesis Reliability DOEs using log location scale distributions to estimate lifetimes of non normally distributed components especially in accelerated life testing It covers transformations optimizing parts and system designs under the lognormal distribution Weibull distribution DOE W for characterizing lifetimes affected by various failure modes detailing parameter assessment methods and real world applications The book also introduces reliability design of experiments based on the exponential distribution DOE E Importance of predicting lifecycles and enhancing reliability through qualitative and stepwise accelerated life tests Integration of physics of failure with statistical methods like Weibull statistics and lognormal approximation enhances analysis credibility Inferential mechanisms such as the Arrhenius and Eyring models in predicting automotive component lifecycles refining product life prediction based on reliability DOEs Whether you re an engineer

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