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 then 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.

# **2014 Nov Life Sciences Paper Question Paper**

**Disha Experts** 

#### 2014 Nov Life Sciences Paper Question Paper:

22 Topic-wise CTET Paper 2 Mathematics Science Previous Year Solved Papers (2024 - 2011) Class 6 - 8 Teachers | Child Development & Pedagogy, English & Hindi Language Disha Experts, 2024-10-22 The First edition of the book 22 TOPIC WISE CTET Paper 2 Mathematics Science Solved Papers 2024 2011 English Edition contains detailed Solutions to the Past 22 Solved Papers of the CTET exam from 2011 to 2024 The past 22 CTET Solved papers included are June 2011 Jan Section II mathematics has 15 Topics Section III Science has 16 Topics Section IV English 11 Topics Section V Hindi has 10 Topics The detailed solutions are provided immediately after each topic Solutions are provided for each question The languages covered in the tests are English 1st language and Hindi 2nd language The book is 100% useful for UPTET HTET MPTET CGTET UKTET HPTET BTET PTET and other STET Exam 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 3rd International Conference for Innovation in Biomedical Engineering and Life Sciences Fatimah Ibrahim, Juliana Usman, Mohd Yazed Ahmad, Norhamizan Hamzah, 2021-01-07 This book presents innovative engineering solution for medical diagnosis therapy and life science studies Gathering the proceedings of the 3rd International Conference for Innovation in Biomedical Engineering and Life Sciences ICIBEL 2020 held on December 6 7 2019 in Kuala Lumpur Malaysia this book aims at informing on engineering tools and their clinical applications and being a source of inspiration for future research and interdisciplinary collaborations 19 Year-wise CTET Paper 2 (Mathematics & Science) Previous Year Solved Papers (2024 - 2011) - Class 6 - 8 Teachers - 6th English Edition | Central Teacher Eligibility Test PYOs Question Bank, The updated 6th edition of the book 19 YEAR WISE CTET Paper 2 Mathematics Science Solved Papers 2024 2011 English Edition contains detailed Solutions to the Past 19 Solved Papers of the CTET exam from 2011 to 2024 The past 19 CTET Solved papers included are June 2011 Jan Nov 2012 July 2013 Feb Sep 2014 Feb Sep 2015 Feb Sep 2016 Papers Dec 2018 July Dec 2019 Dec 2020 Dec Jan 2021 Dec Jan 2022 Aug 2023 Jan 2024 July 2024 The detailed solutions are provided immediately after each paper Solutions are provided for each question The languages covered in the tests are English and Hindi The book is 100% useful for UPTET HTET MPTET

CGTET UKTET HPTET BTET PTET and other STET Exams Grade Booster CBSE Ouestion Bank Previous Years Chapterwise Question Papers Science Class 10, 2025-09-22 The Grade Booster CBSE Chapterwise Science Question Bank for Class 10 compiles previous years question papers arranged chapter wise for Physics Chemistry and Biology Each paper is provided with detailed step by step solutions along with examiner s tips for better presentation. The book helps students understand exam trends practice effectively and focus on frequently asked questions By solving past papers systematically students can improve their speed accuracy and confidence This book serves as a reliable revision tool and ensures thorough preparation for CBSE Class 10 Science board examinations enabling students to score higher marks <u>Products of Biotechnology</u> National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Board on Agriculture and Natural Resources, Board on Life Sciences, Committee on Future Biotechnology Products and Opportunities to Enhance Capabilities of the Biotechnology Regulatory System, 2017-07-28 Between 1973 and 2016 the ways to manipulate DNA to endow new characteristics in an organism that is biotechnology have advanced enabling the development of products that were not previously possible What will the likely future products of biotechnology be over the next 5 10 years What scientific capabilities tools and or expertise may be needed by the regulatory agencies to ensure they make efficient and sound evaluations of the likely future products of biotechnology Preparing for Future Products of Biotechnology analyzes the future landscape of biotechnology products and seeks to inform forthcoming policy making This report identifies potential new risks and frameworks for risk assessment and areas in which the risks or lack of risks relating to the products of biotechnology are well understood control and feed-forward models of locomotion in humans Marco Iosa, Nadia Dominici, Federica Tamburella, Leonardo Gizzi, 2015-07-29 Locomotion involves many different muscles and the need of controlling several degrees of freedom Despite the Central Nervous System can finely control the contraction of individual muscles emerging evidences indicate that strategies for the reduction of the complexity of movement and for compensating the sensorimotor delays may be adopted Experimental evidences in animal and lately human model led to the concept of a central pattern generator CPG which suggests that circuitry within the distal part of CNS i e spinal cord can generate the basic locomotor patterns even in the absence of sensory information Different studies pointed out the role of CPG in the control of locomotion as well as others investigated the neuroplasticity of CPG allowing for gait recovery after spinal cord lesion Literature was also focused on muscle synergies i e the combination of locomotor functional modules implemented in neuronal networks of the spinal cord generating specific motor output by imposing a specific timing structure and appropriate weightings to muscle activations Despite the great interest that this approach generated in the last years in the Scientific Community large areas of investigations remain available for further improvement e q the influence of afferent feedback and environmental constrains for both experimental and simulated models However also supraspinal structures are involved during locomotion and it has

been shown that they are responsible for initiating and modifying the features of this basic rhythm for stabilising the upright walking and for coordinating movements in a dynamic changing environment Furthermore specific damages into spinal and supraspinal structures result in specific alterations of human locomotion as evident in subjects with brain injuries such as stroke brain trauma or people with cerebral palsy in people with death of dopaminergic neurons in the substantia nigra due to Parkinson's disease or in subjects with cerebellar dysfunctions such as patients with ataxia. The role of cerebellum during locomotion has been shown to be related to coordination and adaptation of movements Cerebellum is the structure of CNS where are conceivably located the internal models that are neural representations miming meaningful aspects of our body such as input output characteristics of sensorimotor system Internal model control has been shown to be at the basis of motor strategies for compensating delays or lacks in sensorimotor feedbacks and some aspects of locomotion need predictive internal control especially for improving gait dynamic stability for avoiding obstacles or when sensory feedback is altered or lacking Furthermore despite internal model concepts are widespread in neuroscience and neurocognitive science neurorehabilitation paid far too little attention to the potential role of internal model control on gait recovery Many important scientists have contributed to this Research Topic with original studies computational studies and review articles focused on neural circuits and internal models involved in the control of human locomotion aiming at understanding the role played in control of locomotion of different neural circuits located at brain cerebellum and spinal cord levels Efraim Turban, David King, Jae Kyu Lee, Ting-Peng Liang, Deborrah C. Turban, 2015-01-29 Throughout the book theoretical foundations necessary for understanding Electronic Commerce EC are presented ranging from consumer behavior to the economic theory of competition Furthermore this book presents the most current topics relating to EC as described by a diversified team of experts in a variety of fields including a senior vice president of an e commerce related company The authors provide website resources numerous exercises and extensive references to supplement the theoretical presentations At the end of each chapter a list of online resources with links to the websites is also provided Additionally extensive vivid examples from large corporations small businesses from different industries and services governments and nonprofit agencies from all over the world make concepts come alive in Electronic Commerce These examples which were collected by both academicians and practitioners show the reader the capabilities of EC its cost and justification and the innovative ways corporations are using EC in their operations In this edition previous editions published by Pearson Prentice Hall the authors bring forth the latest trends in e commerce including social businesses social networking social collaboration innovations and **Complex Dynamical Systems in Education** Matthijs Koopmans, Dimitrios Stamovlasis, 2016-02-19 This book mobility capitalizes on the developments in dynamical systems and education by presenting some of the most recent advances in this area in seventeen non overlapping chapters The first half of the book discusses the conceptual framework of complex dynamical systems and its applicability to educational processes. The second half presents a set of empirical studies that that

illustrate the use of various research methodologies to investigate complex dynamical processes in education and help the reader appreciate what we learn about dynamical processes in education from using these approaches Workbook Paper 2 - Science & Mathematics (10 Solved + 10 Mock papers) Class 6 - 8 Teachers 5th Edition Disha Experts, CTET Practice Workbook Paper 2 Science Maths 10 Solved 10 Mock papers English Edition contains 10 challenging Mock Papers along with 10 Past Solved Papers The Mock Tests follows the exact pattern as per the latest CTET paper The book also contains the solution to the past CTET papers of June 2011 Jan Nov 2012 July 2013 Feb Sep 2014 Feb Sep 2015 and Feb Sep 2016 Papers The languages covered in the tests are English 1st language and Hindi 2nd language Each Practice Set in the book contains sections on Child Development Pedagogy English Hindi Mathematics and Science The question papers have been set very diligently so as to give a real feel of the actual TET The book is also useful for other State TETs UPTET Rajasthan TET Haryana TET Bihar TET Uttarakhand TET etc **Pharmaceutical Industry and Public Policy in Post-reform India** Reji K. Joseph, 2015-07-24 This book examines the impact of economic reforms in India on the pharmaceutical industry and access to medicines It traces the changing production and trade pattern of the industry research and development R D preferences and strategies of Indian pharmaceutical firms patent system alongside pricing policy measures and their shortcomings It also analyses the public health financing system in India driven largely by out of pocket expenditure about 60 per cent and characterised by very high share of medicines in total health expenditure A masterful insight into a topical area the work will be indispensable to those working on pharmaceutical industry and public policy It will be of interest to researchers scholars students and policy makers of economics industrial policy public policy intellectual property rights and health financing 12 YEAR-WISE CTET Paper 2 (Mathematics & Science) Solved Papers (2011 - 2019) - 2nd English Edition Disha Experts, 2019-09-06 10 YEAR-WISE CTET Paper 2 (Mathematics & Science) Solved Papers (2011 - 2018) - English Edition Disha Experts, CTET Paper 2 Science Maths Year wise Solved Papers 2011 2018 English Edition contains Past 10 Solved Papers of the CTET exam The past CTET Solved papers included are June 2011 Jan Nov 2012 July 2013 Feb Sep 2014 Feb Sep 2015 and Feb Sep 2016 Papers The languages covered in the tests are English 1st language and Hindi 2nd language 14 YEAR-WISE CTET Paper 2 (Mathematics & Science) Solved Papers (2011 - 2020) - 3rd English Edition Disha Experts, 2020-04-06 CTET Success Master Maths & Science Paper-2 for Class 6 to 8 2020 Arihant Experts, 2020-01-02 Throughout the world teaching is looked at as one of the most respected and noble profession a person could have A great teacher not only shows the right path that a student should follow but also prepares the human resources for the further development of the nation Among various exams CTET is the most popular teaching exam in the country Central Teaching Eligibility Test CTET is a national level test conducted by CBSE twice a year to recruit the eligible candidates as teacher The exam is conducted into 2 papers Paper 1 for class 1 5 and Paper 2 for class 6 8 Any candidate who is interested to become a teacher for classes 6 to 8 then they have to appear for both the papers The

new the edition of Study Guide Success Master CTET Mathematics and Science Paper II has been prepared completely on the latest exam pattern The book has been divided into 5 key sections and further divided into chapters providing the focused study material After covering theoretical part this book also concentrates on the practice part it provides Previous Years Solved Paper 2 practice sets and more than 3000 MCQs for thorough practice Ample numbers of questions have been given which are covered in a Chapterwise manner that allows candidates to understand the trend of the questions as well as the exam This book will prove to be highly useful for the CTET Paper 2 exam as it will help in achieving the good rank in the exam TABLE OF CONTENT Solved Paper 2019 December Solved Paper 2019 July Solved Paper 2018 December Solved Paper 2016 September Child Development and Pedagogy English Language and Pedagogy Hindi Bhasha evm Shiksha Shastra Mathematics and Pedagogy Science and Pedagogy Practice Sets 1 2 Multi-omic Data Integration Paolo Tieri, Christine Nardini, Jennifer Elizabeth Dent, 2015-09-17 Stable predictive biomarkers and interpretable disease signatures are seen as a significant step towards personalized medicine In this perspective integration of multi omic data coming from genomics transcriptomics glycomics proteomics metabolomics is a powerful strategy to reconstruct and analyse complex multi dimensional interactions enabling deeper mechanistic and medical insight At the same time there is a rising concern that much of such different omic data although often publicly and freely available lie in databases and repositories underutilised or not used at all Issues coming from lack of standardisation and shared biological identities are also well known From these considerations a novel pressing request arises from the life sciences to design methodologies and approaches that allow for these data to be interpreted as a whole i e as intertwined molecular signatures containing genes proteins mRNAs and miRNAs able to capture inter layers connections and complexity Papers discuss data integration approaches and methods of several types and extents their application in understanding the pathogenesis of specific diseases or in identifying candidate biomarkers to exploit the full benefit of multi omic datasets and their intrinsic information content Topics of interest include but are not limited to Methods for the integration of layered data including but not limited to genomics transcriptomics glycomics proteomics metabolomics Application of multi omic data integration approaches for diagnostic biomarker discovery in any field of the life sciences Innovative approaches for the analysis and the visualization of multi omic datasets Methods and applications for systematic measurements from single undivided samples comprising genomic transcriptomic proteomic metabolomic measurements among others Multi scale approaches for integrated dynamic modelling and simulation Implementation of applications computational resources and repositories devoted to data integration including but not limited to data warehousing database federation semantic integration service oriented and or wiki integration Issues related to the definition and implementation of standards shared identities and semantics with particular focus on the integration problem Research papers reviews and short communications on all topics related to the above issues were welcomed Big Data and Analytics Vincenzo Morabito, 2015-01-31 This book presents and discusses the main strategic and

organizational challenges posed by Big Data and analytics in a manner relevant to both practitioners and scholars The first part of the book analyzes strategic issues relating to the growing relevance of Big Data and analytics for competitive advantage which is also attributable to empowerment of activities such as consumer profiling market segmentation and development of new products or services Detailed consideration is also given to the strategic impact of Big Data and analytics on innovation in domains such as government and education and to Big Data driven business models The second part of the book addresses the impact of Big Data and analytics on management and organizations focusing on challenges for governance evaluation and change management while the concluding part reviews real examples of Big Data and analytics innovation at the global level The text is supported by informative illustrations and case studies so that practitioners can use the book as a toolbox to improve understanding and exploit business opportunities related to Big Data and analytics Topic-wise CTET Paper 1 Previous Year Solved Papers (2024 - 2011) Class 1 - 5 Teachers | Child Development & Pedagogy, English, Hindi, EVS & Mathematics Disha Experts, 2024-10-22 The First edition of the book 22 TOPIC WISE CTET Paper 1 Solved Papers 2024 2011 English Edition contains detailed Solutions to the Past 22 Solved Papers of the CTET exam from 2011 to 2024 The past 22 CTET Solved papers included are June 2011 Jan Section II mathematics has 15 Topics Section III EVS has 13 Topics Section IV English 11 Topics Section V Hindi has 10 Topics The detailed solutions are provided immediately after each topic Solutions are provided for each question The languages covered in the tests are English 1st language and Hindi 2nd language The book is 100% useful for UPTET HTET MPTET CGTET UKTET HPTET BTET PTET and other STET Exam System Analysis and Artificial Intelligence Michael Zgurovsky, Nataliya Pankratova, 2023-08-28 This book contains the latest scientific work of Ukrainian scientists and their colleagues from other countries of the world in three interrelated areas systems analysis artificial intelligence and data mining The included articles present the theoretical foundations and practical applications of the latest tools and methods of artificial intelligence scenario planning decision making and computational intelligence for important areas of human activity The tools and methods presented in the book are continuously evolving and finding new applications across various fields contributing to advancements and efficiencies in different industries healthcare finance retail and E commerce manufacturing and industrial automation transportation and logistics advancements and cybersecurity The results of the book are useful to teachers scientists graduate students of universities and managers of large companies specializing in strategic planning engineering design of complex systems decision making optimization of operations and other related fields of knowledge and practice Handbook of Research on Language Teacher Identity Karpava, Sviatlana, 2023-03-13 In today s educational world it is crucial for language teachers to continuously evolve in order to best serve language learners Further study on the best practices and challenges in the language classroom is crucial to ensure instructors continue to grow as educators The Handbook of Research on Language Teacher Identity addresses new developments in the field of language education affected by evolving learning environments

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