

MODERN VIDYA NIKETAN
Annual Examination (2nd Term)– 2020-21
Class-IX
Subject – Science



Time: 3 Hrs

M.M. - 80

SECTION-A

Q1. Which postulate of Dalton's atomic theory satisfy the law of conservation of mass? (1)

OR

How many atoms are present in PO_4^{3-} ?

Q2. What is the maximum number of electrons which can be accommodated in 'N' shell? (1)

Q3. Which of the following is a true solution? (1)

- | | |
|--------------------|---------------------------|
| (a) Milk | (b) Chalk powder in water |
| (c) Salt solutions | (d) Blood |

Q4. Can any object have momentum even if its Mechanical Energy is zero. Explain. (1)

Q5. Why glasswares are wrapped in straw during transportation. (1)

Q6. Draw momentum versus velocity graph when mass is fixed. (1)

OR

Is gravitational potential energy of an object path dependent.

Q7. Name the physical quantity that has the unit N-sec. (1)

Q8. Are kilo-watt and kilo watt hour the same units? Yes/No. Justify. (1)

Q9. State work-energy theorem. (1)

OR

Two bodies of equal masses move with uniform velocity ' v ' and ' $4v$ ' respectively. Find the ratio of their kinetic energies.

Q10. Name an organelle that can make some of its own protein in a plant cell and state its function. (1)

Q11. With which organelle would you associate elimination of worn out cell organelle and why? (1)

Q12. Which meristem is responsible for the transformation of stem of a plant into a trunk when it grows into a tree? (1)

Q13. List two characteristics of a cork cell which helps them to function as a protective tissue. (1)

2010 N1 Engineering Science Question Paper

**Javier Esparza, Pierre Fraigniaud, Thore
Husfeldt, Elias Koutsoupas**



2010 N1 Engineering Science Question Paper:

Scaled for Success Philip Hayward, 2018-07-26 Emerging from the confluence of Greco Roman mythology and regional folklore the mermaid has been an enduring motif in Western culture since the medieval period It has also been disseminated more widely initially through Western trade and colonisation and more recently through the increasing globalisation of media products and outlets Scaled for Success offers the first detailed overview of the mermaids dispersal outside Europe Complementing previous studies of the interrelationship between the mermaid and Mami Wata spirit in West Africa this volume addresses the mermaids presence in a range of Middle Eastern Asian Australian Latin American and North American contexts Individual chapters identify the manner in which the mermaid has been variously syncretised and or resignified in contexts as diverse as Indian public statuary Thai cinema and Coney Islands annual Mermaid Parade Rather than lingering as a relic of a bygone age the mermaid emerges as a versatile dynamic and above all polyvalent figure Her prominence exemplifies the manner in which contemporary media lore has extended the currency of established folkloric figures in new and often surprising ways Analysing aspects of religious symbolism visual art literature and contemporary popular culture this copiously illustrated volume profiles an intriguing and highly diverse phenomenon Philip Hayward is editor of the journal Shima and holds adjunct professor positions at the University of Technology Sydney and at Southern Cross University His previous volume Making a Splash Mermaids and Mermen in 20th and 21st Century Audiovisual Media was published by John Libbey Publishing Indiana University Press in 2017

Feyerabend's Formative Years. Volume 1. Feyerabend and Popper Matteo Collodel, Eric Oberheim, 2020-03-30 This book offers an inside look into the notoriously tumultuous professional relationship of two great minds Karl Popper and Paul Feyerabend It collects their complete surviving correspondence 1948 1967 and contains previously unpublished papers by both An introduction situates the correspondence in its historical context by recounting how they first came to meet and an extensive editorial apparatus provides a wealth of background information along with systematic mini biographies of persons named Taken together the collection presents Popper and Feyerabend's controversial ideas against the background of the postwar academic environment It exposes key aspects of an evolving student mentor relationship that eventually ended amidst increasing accusations of plagiarism Throughout readers will find in depth discussions on a wide range of intriguing topics including an ongoing debate over the foundations of quantum theory and Popper's repeated attempts to design an experiment that would test different interpretations of quantum mechanics The captivating exchange between Feyerabend and Popper offers a valuable resource that will appeal to scientists laymen and a wide range of scholars especially philosophers historians of science and philosophy and more generally intellectual historians

Neutrosophic Sets and Systems, vol. 13/2016 Florentin Smarandache, Mumtaz Ali, Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field

such as the neutrosophic structures developed in algebra geometry topology etc

Automata, Languages, and Programming Javier Esparza, Pierre Fraigniaud, Thore Husfeldt, Elias Koutsoupias, 2014-06-11 This two volume set of LNCS 8572 and LNCS 8573 constitutes the refereed proceedings of the 41st International Colloquium on Automata Languages and Programming ICALP 2014 held in Copenhagen Denmark in July 2014 The total of 136 revised full papers presented together with 4 invited talks were carefully reviewed and selected from 484 submissions The papers are organized in three tracks focussing on Algorithms Complexity and Games Logic Semantics Automata and Theory of Programming Foundations of Networked Computation

Computing and Combinatorics Zhipeng Cai, Alexander Zelikovsky, Anu Bourgeois, 2014-07-05 This book constitutes the refereed proceedings of the 20th International Conference on Computing and Combinatorics COCOON 2014 held in Atlanta GA USA in August 2014 The 51 revised full papers presented were carefully reviewed and selected from 110 submissions There was a co organized workshop on computational social networks CSoNet 2014 where 8 papers were accepted The papers cover the following topics sampling and randomized methods logic algebra and automata database and data structures parameterized complexity and algorithms computational complexity computational biology and computational geometry approximation algorithm graph theory and algorithms game theory and cryptography scheduling algorithms and circuit complexity and CSoNet

Federal Register, 2013-02 Security in Computing Charles P. Pfleeger, Shari Lawrence Pfleeger, Jonathan Margulies, 2015-01-14 The New State of the Art in Information Security Now Covers Cloud Computing the Internet of Things and Cyberwarfare Students and IT and security professionals have long relied on Security in Computing as the definitive guide to computer security attacks and countermeasures Now the authors have thoroughly updated this classic to reflect today s newest technologies attacks standards and trends Security in Computing Fifth Edition offers complete timely coverage of all aspects of computer security including users software devices operating systems networks and data Reflecting rapidly evolving attacks countermeasures and computing environments this new edition introduces best practices for authenticating users preventing malicious code execution using encryption protecting privacy implementing firewalls detecting intrusions and more More than two hundred end of chapter exercises help the student to solidify lessons learned in each chapter Combining breadth depth and exceptional clarity this comprehensive guide builds carefully from simple to complex topics so you always understand all you need to know before you move forward You ll start by mastering the field s basic terms principles and concepts Next you ll apply these basics in diverse situations and environments learning to think like an attacker and identify exploitable weaknesses Then you will switch to defense selecting the best available solutions and countermeasures Finally you ll go beyond technology to understand crucial management issues in protecting infrastructure and data New coverage includes A full chapter on securing cloud environments and managing their unique risks Extensive new coverage of security issues associated with user web interaction New risks and techniques for safeguarding the Internet of Things A new primer on threats to privacy and

how to guard it An assessment of computers and cyberwarfare recent attacks and emerging risks Security flaws and risks associated with electronic voting systems **Media Review Digest** C. Edward Wall,2006 **Environment Abstracts** ,1990 This database encompasses all aspects of the impact of people and technology on the environment and the effectiveness of remedial policies and technologies featuring more than 950 journals published in the U S and abroad The database also covers conference papers and proceedings special reports from international agencies non governmental organizations universities associations and private corporations Other materials selectively indexed include significant monographs government studies and newsletters **The Environment Index** ,1980 **Environment Abstracts Annual 1990** Bowker Editorial Staff,R R Bowker Publishing,Bowker,1991-03 **Energy Information Abstracts Annual, 1990** ,1990 Government Reports Announcements & Index ,1983 The Energy Index ,1987 *Catalogue of the Library of the Graduate School of Design, Harvard University* Harvard University. Graduate School of Design. Library,1968 **Physics Briefs** ,1992 **Engineering Science N1** ,2000 *The Writers Directory* ,2013 **Get Exam-ready for Engineering Science** Hertzog Burger,2003 N1 Engineering Science Tommy Ferreira,199?

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