

**GAUTENG DEPARTMENT OF EDUCATION
PREPARATORY EXAMINATION**

PRO-OFFREAD SIGNATURE	☐ DATE _____
PRO-OFFREAD SIGNATURE	☐ DATE _____

**MATHEMATICS
(Second Paper)**

TIME: 3 hours

MARKS: 150

INSTRUCTIONS AND INFORMATION

Read the following instructions carefully before answering the questions.

1. This question paper consists of 12 questions.
2. Answer ALL the questions.
3. Clearly show ALL calculations, diagrams, graphs, et cetera that you have used in determining your answers.
4. Answers only will not necessarily be awarded full marks.
5. You may use an approved scientific calculator (non-programmable and non-graphical), unless stated otherwise.
6. If necessary, round off answers to TWO decimal places, unless stated otherwise.
7. Diagrams are NOT necessarily drawn to scale.
8. Six **DIAGRAM SHEETS** for **QUESTIONS 1.2, 2.1, 2.4, 7.1, 9.2, 10, 11.1, 11.2, 12.2 and 12.3** and the **INFORMATION SHEET** are attached at the end of this question paper.
9. Write your name in the space provided on the **DIAGRAM SHEETS** and hand them in with your **ANSWER BOOK**.
10. Number the answers correctly according to the numbering system used in this question paper.
11. It is in your own interest to write legibly and to present the work neatly.

Gde Nsc Gauteng Prelim Maths Pseptember 2014

J Rink



Gde Nsc Gauteng Prelim Maths PSeptember 2014:

Embark on a transformative journey with is captivating work, Grab Your Copy of **Gde Nsc Gauteng Prelim Maths Pseptember 2014** . This enlightening ebook, available for download in a convenient PDF format PDF Size: , invites you to explore a world of boundless knowledge. Unleash your intellectual curiosity and discover the power of words as you dive into this riveting creation. Download now and elevate your reading experience to new heights .

https://staging.conocer.cide.edu/book/scholarship/default.aspx/i_believe_in_man.pdf

Table of Contents Gde Nsc Gauteng Prelim Maths Pseptember 2014

1. Understanding the eBook Gde Nsc Gauteng Prelim Maths Pseptember 2014
 - The Rise of Digital Reading Gde Nsc Gauteng Prelim Maths Pseptember 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Gde Nsc Gauteng Prelim Maths Pseptember 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gde Nsc Gauteng Prelim Maths Pseptember 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gde Nsc Gauteng Prelim Maths Pseptember 2014
 - Personalized Recommendations
 - Gde Nsc Gauteng Prelim Maths Pseptember 2014 User Reviews and Ratings
 - Gde Nsc Gauteng Prelim Maths Pseptember 2014 and Bestseller Lists
5. Accessing Gde Nsc Gauteng Prelim Maths Pseptember 2014 Free and Paid eBooks
 - Gde Nsc Gauteng Prelim Maths Pseptember 2014 Public Domain eBooks
 - Gde Nsc Gauteng Prelim Maths Pseptember 2014 eBook Subscription Services
 - Gde Nsc Gauteng Prelim Maths Pseptember 2014 Budget-Friendly Options

6. Navigating Gde Nsc Gauteng Prelim Maths Pseptember 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Gde Nsc Gauteng Prelim Maths Pseptember 2014 Compatibility with Devices
 - Gde Nsc Gauteng Prelim Maths Pseptember 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gde Nsc Gauteng Prelim Maths Pseptember 2014
 - Highlighting and Note-Taking Gde Nsc Gauteng Prelim Maths Pseptember 2014
 - Interactive Elements Gde Nsc Gauteng Prelim Maths Pseptember 2014
8. Staying Engaged with Gde Nsc Gauteng Prelim Maths Pseptember 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gde Nsc Gauteng Prelim Maths Pseptember 2014
9. Balancing eBooks and Physical Books Gde Nsc Gauteng Prelim Maths Pseptember 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gde Nsc Gauteng Prelim Maths Pseptember 2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gde Nsc Gauteng Prelim Maths Pseptember 2014
 - Setting Reading Goals Gde Nsc Gauteng Prelim Maths Pseptember 2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gde Nsc Gauteng Prelim Maths Pseptember 2014
 - Fact-Checking eBook Content of Gde Nsc Gauteng Prelim Maths Pseptember 2014
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

Gde Nsc Gauteng Prelim Maths Pseptember 2014 Introduction

Gde Nsc Gauteng Prelim Maths Pseptember 2014 Offers over 60,000 free eBooks, including many classics that are in the public domain. Open Library: Provides access to over 1 million free eBooks, including classic literature and contemporary works. Gde Nsc Gauteng Prelim Maths Pseptember 2014 Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Gde Nsc Gauteng Prelim Maths Pseptember 2014 : This website hosts a vast collection of scientific articles, books, and textbooks. While it operates in a legal gray area due to copyright issues, its a popular resource for finding various publications. Internet Archive for Gde Nsc Gauteng Prelim Maths Pseptember 2014 : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Gde Nsc Gauteng Prelim Maths Pseptember 2014 Offers a diverse range of free eBooks across various genres. Gde Nsc Gauteng Prelim Maths Pseptember 2014 Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Gde Nsc Gauteng Prelim Maths Pseptember 2014 Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Gde Nsc Gauteng Prelim Maths Pseptember 2014, especially related to Gde Nsc Gauteng Prelim Maths Pseptember 2014, might be challenging as theyre often artistic creations rather than practical blueprints. However, you can explore the following steps to search for or create your own Online Searches: Look for websites, forums, or blogs dedicated to Gde Nsc Gauteng Prelim Maths Pseptember 2014, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Gde Nsc Gauteng Prelim Maths Pseptember 2014 books or magazines might include. Look for these in online stores or libraries. Remember that while Gde Nsc Gauteng Prelim Maths Pseptember 2014, sharing copyrighted material without permission is not legal. Always ensure youre either creating your own or obtaining them from legitimate sources that allow sharing and downloading. Library Check if your local library offers eBook lending services. Many libraries have digital catalogs where you can borrow Gde Nsc Gauteng Prelim Maths Pseptember 2014 eBooks for free, including popular titles. Online Retailers: Websites like Amazon, Google Books, or Apple Books often sell eBooks. Sometimes, authors or publishers offer promotions or free periods for certain books. Authors Website Occasionally, authors provide excerpts or short stories for free on their websites. While this might not be the Gde Nsc Gauteng Prelim Maths Pseptember 2014 full book , it can give you a taste of the authors writing style. Subscription Services Platforms like Kindle Unlimited or Scribd offer subscription-based access to a wide range of Gde Nsc Gauteng Prelim Maths Pseptember 2014 eBooks, including some popular titles.

FAQs About Gde Nsc Gauteng Prelim Maths Pseptember 2014 Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer webbased readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Gde Nsc Gauteng Prelim Maths Pseptember 2014 is one of the best book in our library for free trial. We provide copy of Gde Nsc Gauteng Prelim Maths Pseptember 2014 in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Gde Nsc Gauteng Prelim Maths Pseptember 2014. Where to download Gde Nsc Gauteng Prelim Maths Pseptember 2014 online for free? Are you looking for Gde Nsc Gauteng Prelim Maths Pseptember 2014 PDF? This is definitely going to save you time and cash in something you should think about. If you trying to find then search around for online. Without a doubt there are numerous these available and many of them have the freedom. However without doubt you receive whatever you purchase. An alternate way to get ideas is always to check another Gde Nsc Gauteng Prelim Maths Pseptember 2014. This method for see exactly what may be included and adopt these ideas to your book. This site will almost certainly help you save time and effort, money and stress. If you are looking for free books then you really should consider finding to assist you try this. Several of Gde Nsc Gauteng Prelim Maths Pseptember 2014 are for sale to free while some are payable. If you arent sure if the books you would like to download works with for usage along with your computer, it is possible to download free trials. The free guides make it easy for someone to free access online library for download books to your device. You can get free download on free trial for lots of books categories. Our library is the biggest of these that have literally hundreds of thousands of different products categories represented. You will also see that there are specific sites catered to different product types or categories, brands or niches related with Gde Nsc Gauteng Prelim Maths Pseptember 2014. So depending on what exactly you are searching, you will be able to choose e books to suit your own need. Need to access completely for Campbell Biology Seventh Edition book? Access Ebook without any digging. And by having access to our ebook online or by storing it on your computer, you have convenient answers with Gde Nsc Gauteng Prelim Maths Pseptember 2014 To get started finding Gde Nsc Gauteng Prelim Maths Pseptember 2014, you are right to find our website which has a comprehensive collection of books online. Our library is the biggest of these that have literally hundreds of thousands of

different products represented. You will also see that there are specific sites catered to different categories or niches related with Gde Nsc Gauteng Prelim Maths Pseptember 2014 So depending on what exactly you are searching, you will be able to choose ebook to suit your own need. Thank you for reading Gde Nsc Gauteng Prelim Maths Pseptember 2014. Maybe you have knowledge that, people have search numerous times for their favorite readings like this Gde Nsc Gauteng Prelim Maths Pseptember 2014, but end up in harmful downloads. Rather than reading a good book with a cup of coffee in the afternoon, instead they juggled with some harmful bugs inside their laptop. Gde Nsc Gauteng Prelim Maths Pseptember 2014 is available in our book collection an online access to it is set as public so you can download it instantly. Our digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Merely said, Gde Nsc Gauteng Prelim Maths Pseptember 2014 is universally compatible with any devices to read.

Find Gde Nsc Gauteng Prelim Maths Pseptember 2014 :

~~i believe in man~~

hypnosis for inner conflict resolution introducing parts therapy

hunt to kill

~~i am st o l o katherine explores her heritage~~

~~hypoxia man at altitude~~

hypermedia-hypertext and object-oriented databases

hypergraphics digital media design

hypertension and nutrition

hunting sketches

~~hurstons their eyes were watching god~~

i am listening to istanbul; selected poems of orhan veli kanik

husbandry medicine and surgery in captive reptiles

hysplex the starting mechanism in ancient stadia a contribution to ancient greek technology

hypothalamic hormones structure synthesis and biological activity

hymnes de la resurrection i

Gde Nsc Gauteng Prelim Maths Pseptember 2014 :

family survival guide the best ways for families to prepare - May 01 2022

web sep 8 2022 price as of details asin b077xl7s81 publisher skyhorse publishing illustrated edition november 20 2018 publication date november 20 2018 language english file size 33800 kb text to speech enabled screen reader supported enhanced typesetting

family survival guide the best ways for families to prepare - Aug 04 2022

web abebooks com family survival guide the best ways for families to prepare train pack and survive everything 9781510737945 by hawke mykel england hawke ruth and a great selection of similar new used and collectible books available now at great prices

family survival guide skyhorse publishing - Feb 10 2023

web jan 8 2019 family survival guide the best ways for families to prepare train pack and survive everything mykel hawke ruth england hawke 336 pages january 8 2019 isbn 9781510737945 imprint skyhorse publishing trim size 6in x 9in

family survival guide the best ways for families to prepare - Jul 15 2023

web jan 8 2019 family survival guide the best ways for families to prepare train pack and survive everything hawke mykel hawke ruth england 9781510737945 amazon com books books

the family guide to survival skills that can save your life and - Jan 29 2022

web apr 29 2013 the family guide to survival skills that can save your life and the lives of your family hardcover april 29 2013 by alan corson author 5 0 out of 5 stars 5 ratings

family survival guide the best ways for families to prepare - Dec 28 2021

web jun 5 2023 in the family survival guide veteran adventurers mykel and ruth hawke provide the vital information you and your family need to get through almost any disaster safely the topics covered are wide ranging and easy to follow

family survival guide the best ways for families to pr - Mar 11 2023

web nov 20 2018 the guide covers all aspects of survival from a family perspective food water fire shelter navigation first aid tools signals and communication activities and preparation there is a ton of useful information this

10 survival tips for stepfamily life familylife - Feb 27 2022

web eat slowly foreign foods often make your tummy upset don t expect perfection from your family do expect burps in your home life try not to overreact 3 nurture your marriage all stress in a stepfamily even if it begins with ex spouses or children from another home eventually ends up in your marriage

family survival guide ebook by mykel hawke rakuten kobo - Jun 02 2022

web read family survival guide the best ways for families to prepare train pack and survive everything by mykel hawke available from rakuten kobo are you prepared in case disaster strikes are your kids in the family survival guide veteran adventurers mykel and ru

family survival guide the best ways for families to prepare - Sep 05 2022

web buy family survival guide the best ways for families to prepare train pack and survive everything by hawke mykel england hawke ruth online on amazon ae at best prices fast and free shipping free returns cash on delivery available on eligible purchase

family survival guide for our changing climate 52 empowering - Mar 31 2022

web nov 28 2020 buy family survival guide for our changing climate 52 empowering actions you and your family can take now on amazon com free shipping on qualified orders

family survival guide the best ways for families to prepare - Jan 09 2023

web nov 20 2018 in the family survival guide veteran adventurers mykel and ruth hawke provide the vital information you and your family need to get through almost any disaster safely the topics covered are wide ranging and easy to follow

family survival guide the best ways for families to prepare - Nov 07 2022

web family survival guide the best ways for families to prepare train pack and survive everything paperback illustrated 20 nov 2018 by hawke mykel author england hawke ruth author 31 ratings see all formats and editions kindle edition 8 49 read with our free app paperback 24 54 other new used and collectible from 23 22

family survival guide the best ways for families to prepare - Aug 16 2023

web family survival guide the best ways for families to prepare train pack and survive everything hawke mykel england hawke ruth amazon com tr kitap

family survival guide the best ways for families to prepare - Oct 06 2022

web family survival guide the best ways for families to prepare train pack and survive everything ebook hawke mykel hawke ruth england amazon co uk books

family survival guide the best ways for families to prepare - Dec 08 2022

web get this from a library family survival guide the best ways for families to prepare train pack and survive everything myke hawke ruth england hawke how you and your family can survive almost anything

family survival guide the best ways for families to prepare - May 13 2023

web family survival guide the best ways for families to prepare train pack and survive everything ebook written by mykel hawke ruth england hawke read this book using google play books app

family survival guide the best ways for families to pr - Jun 14 2023

web in the family survival guide veteran adventurers mykel and ruth hawke provide the vital information you and your family need to get through almost any disaster safely the topics covered are wide ranging and easy to follow here you and your family will learn

family survival guide the best ways for families to prepare - Apr 12 2023

web here you and your family will learn how to find purify and store waterhow to construct different types of shelter and the perfect places to build themwhat to pack and what not to pack in a

family survival guide the best ways for families to overdrive - Jul 03 2022

web nov 20 2018 in the family survival guide veteran adventurers mykel and ruth hawke provide the vital information you and your family need to get through almost any disaster safely the topics covered are wide ranging and easy to follow

human evolution wikipedia - Mar 30 2022

web sell processes in human evolution the journey from early hominins to neanderthals an 0198739915 at booksrun ship for free and get fast cash back

processes in human evolution the journey from early - Nov 06 2022

web processes in human evolution the journey from early hominins to neandertals and modern humans 2nd edn oxford 2017 online edn oxford academic 18 may 2017

processes in human evolution the journey from early - Feb 26 2022

web men without ears ifeoma okoye 1984 hearing w lawrence gulick 1989 a comprehensive up to date introduction to the perception of sound and its neural basis

processes in human evolution the journey from ear pdf - Jul 14 2023

web processes in human evolution the journey from ear amazing evolution mar 13 2023 evolution can be a difficult idea to wrap our brains around it deals with random unlikely

references processes in human evolutionthe journey from - Jul 02 2022

web processes in human evolution is intended as a primary textbook for university courses on human evolution and may also be used as supplementary reading in advanced

mechanisms the processes of evolution - Jan 28 2022

web ayala francisco j and camilo j cela conde taxonomy processes in human evolution the journey from early hominins to neandertals and modern humans 2nd

processes in human evolution the journey from early hominins - Jun 01 2022

web item 1 processes in human evolution the journey from early hominins to neanderthals processes in human evolution the journey from early hominins to neanderthals

processes in human evolution the journey from early hominins - Aug 15 2023

web mar 16 2017 abstract processes in human evolution is a fully reconsidered treatment of human evolution the previous book by the same authors published by oup in 2007 the major discoveries of the last decade have necessitated a completely

revised view of how

index processes in human evolution the journey from early - Oct 05 2022

web processes in human evolution the journey from early hominins to neandertals and modern humans 2nd edn oxford 2017

online edn oxford academic 18 may 2017

processes in human evolution the journey from early hominins - Apr 30 2022

web menu home evolution 101 an introduction to evolution what is evolution and how does it work the history of life looking at the patterns change over time and shared

processes in human evolution the journey from proquest - Mar 10 2023

web processes in human evolution the journey from early hominins to neanderthals and modern humans by francisco j ayala and camilo j cela conde 2nd ed oxford

sell buy or rent processes in human evolution the journey - Dec 27 2021

processes in human evolution the journey from early - Jan 08 2023

web written by two leading authorities in the fields of physical anthropology and molecular evolution processes in human evolution presents a reconsidered overview of

processes in human evolution the journey from early - Dec 07 2022

web written by two leading authorities in the fields of physical anthropology and molecular evolution processes in human evolution presents a reconsidered overview of

human evolution history stages timeline tree - Aug 03 2022

web mar 1 2017 written by two leading authorities in the fields of physical anthropology and molecular evolution processes in human evolution presents a reconsidered overview

processes in human evolution the journey from early hominins - Feb 09 2023

web mar 1 2017 written by two leading authorities in the fields of physical anthropology and molecular evolution processes in human evolution presents a reconsidered overview

processes in human evolution oxford university press - Apr 11 2023

web may 16 2017 processes in human evolution the journey from early hominins to neanderthals and modern humans francisco j ayala and camilo j cela conde

processes in human evolution the journey from early hominins - Jun 13 2023

web written by two leading authorities in the fields of physical anthropology and molecular evolution processes in human evolution presents a reconsidered overview of

taxonomy processes in human evolution the journey from - Oct 25 2021

processes in human evolution the journey from ear stanley marvin - Nov 25 2021

processes in human evolution the journey from early hominins - May 12 2023

web processes in human evolution the journey from early hominins to neandertals and modern humans 2nd edn oxford 2017
online edn oxford academic 18 may 2017

preface processes in human evolution the journey from early - Sep 04 2022

web references processes in human evolution the journey from early hominins to neandertals and modern humans 2nd edn
oxford 2017 online edn oxford academic

diffusion and osmosis biology libretexts - May 11 2023

web diffusion is the movement of particles from a high to lower concentration osmosis is the diffusion of water across a
membrane active transport moves particles from low to

comparing diffusion osmosis and active transport - Jul 13 2023

web transport in cells for an organism to function substances must move into and out of cells three processes contribute to
this movement diffusion osmosis and active transport

diffusion osmosis difference between diffusion osmosis - Oct 24 2021

diffusion osmosis and active transport worksheet f2020 - Jun 12 2023

web small molecules for example may pass through the membrane if no energy is required for substances to pass through the
membrane the process is called passive transport we

simple diffusion and passive transport article khan - Dec 06 2022

web feb 20 2011 diffusion refers to the movement of molecules from an area of high concentration to an area of lower
concentration osmosis is a type of diffusion specifically for water molecules

diffusion and osmosis oak ridge institute for science - Oct 04 2022

web the three main kinds of passive transport are diffusion or simple diffusion osmosis and facilitated diffusion simple
diffusion and osmosis do not involve transport

comparing diffusion osmosis and active transport - Apr 10 2023

web quiz test questions key points diffusion is the movement of particles from higher to lower concentrations diffusion
happens naturally and so does not require energy

diffusion osmosis active transport test questions - Aug 02 2022

web worksheet diffusion and osmosis answer key 1 section 3 4 diffusion and osmosis power notes the movement of passive transport section 5 1 answer

18 9 osmosis and diffusion chemistry libretexts - Sep 03 2022

web when addressing something like osmosis it is really another form of diffusion for water but flipped in diffusion we don't see the polarity size of molecules or charge playing a role

diffusion and osmosis crossword activity flashcards quizlet - Feb 25 2022

web the question often arises as to what is the difference between osmosis and diffusion which are two forms of biological transport osmosis is the movement of solvent

worksheet diffusion and osmosis answer key 1 slideshowes - May 31 2022

web osmosis is a chemical process of absorption or diffusion of a solvent through a semi permeable membrane as of a living cell to a higher concentration of solute and then it

osmosis and diffusion difference easybiologyclass - Jan 27 2022

web osmosis is the diffusion of a solvent through a differentially permeable membrane in biological systems the solvent will usually be water osmosis will occur whenever the

diffusion in cells living organisms ks3 biology bbc - Mar 09 2023

web transport in cells for an organism to function substances must move into and out of cells three processes contribute to this movement diffusion osmosis and active transport

passive transport and active transport across a cell - Jan 07 2023

web in cells some molecules can move down their concentration gradients by crossing the lipid portion of the membrane directly while others must pass through membrane proteins in

5 7 cell transport biology libretexts - Aug 14 2023

web why can generally only very small hydrophobic molecules across the cell membrane by simple diffusion explain how facilitated diffusion assists in osmosis in cells be sure

cell membranes transport diffusion and osmosis key pdf - Mar 29 2022

web aug 3 2023 in this enlightening article we will explore the significance of the ap biology laboratory 1 diffusion and osmosis answer key its alignment with essential

difference between osmosis and diffusion in tabular form toppr - Nov 24 2021

osmosis and tonicity khan academy - Jul 01 2022

web label the diagrams of cells using the following terms diffusion active transport osmosis facilitated diffusion or equilibrium the arrows show the direction of transport you may

ap biology laboratory 1 diffusion and osmosis answer key - Dec 26 2021

web 1 how are the molecules moving in the examples below write osmosis or diffusion a the student sitting next to you just came from gym class and forgot to shower and you

cell transport review worksheet acpsd - Apr 29 2022

web movement of molecules from high to low concentrate diffusion a molecule composed of two hydrogen and one oxygen water a solution that has equal amounts of particles

diffusion osmosis worksheet answers loreescience - Sep 22 2021

diffusion and osmosis video khan academy - Nov 05 2022

web 1 define diffusion 2 what is moving during osmosis 3 which type of cellular transport requires energy passive transport or active transport 4 what are two types of

diffusion transport in cells aqa gcse biology - Feb 08 2023

web there are two major ways that molecules can be moved across a membrane and the distinction has to do with whether or not cell energy is used passive mechanisms like diffusion use no energy while active transport requires energy to get done