

NATURAL SCIENCES GRADE 9

MEMORANDUM

CONTENT MANUAL (BASIC CONCEPTS WITH ACTIVITIES) ATP 2022

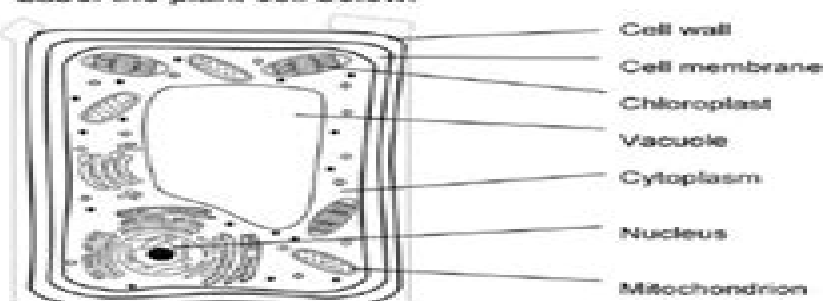
TERM 1

Strand: Life and Living

Informal activity – Plant cell

1. Name the smallest unit of all living organisms. *Cell ✓*
2. Label the plant cell below.

(1)



(1 × 7 = 7)

3. Identify from the drawing above, the component / organelle which performs each of the functions below:

Function	Name of component or organelle
Contains the DNA which determines the inherited characteristics.	<i>Nucleus ✓</i>
It surrounds the contents (cytoplasm) of the cell and controls the materials which pass into or out of a cell (selectively permeable).	<i>Cell membrane ✓</i>
A jelly-like substance which provides the liquid medium for all the chemical reactions that take place in the cell.	<i>Cytoplasm ✓</i>
The organelle in which cellular respiration takes place to release energy from glucose.	<i>Mitochondrion ✓</i>
The organelle that contains chlorophyll for photosynthesis.	<i>Chloroplast ✓</i>
It surrounds the cell membrane and provides support and protection.	<i>Cell wall ✓</i>
Fluid-filled sacs that store substances such as water, sugar, and salts.	<i>Vacuole ✓</i>

(7)

4. Name **TWO parts/organelles** VISIBLE in the diagram that prove that this is a PLANT cell.
Cell wall, ✓ chloroplasts, ✓ one big vacuole ✓ (ANY TWO) (2)
5. Which component of a plant cell is responsible for its regular shape? *Cell wall ✓* (1)

Memorandum For Natural Science Grade 9 2015

Answers

G Psacharopoulos



Memorandum For Natural Science Grade 9 2015 Answers:

Memorandum For Natural Science Grade 9 2015 Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Memorandum For Natural Science Grade 9 2015 Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://www.splashdogs.com/results/Resources/default.aspx/haynes%20manual%20vw%20t3.pdf>

Table of Contents Memorandum For Natural Science Grade 9 2015 Answers

1. Understanding the eBook Memorandum For Natural Science Grade 9 2015 Answers
 - The Rise of Digital Reading Memorandum For Natural Science Grade 9 2015 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Memorandum For Natural Science Grade 9 2015 Answers
 - 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 Memorandum For Natural Science Grade 9 2015 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Memorandum For Natural Science Grade 9 2015 Answers
 - Personalized Recommendations
 - Memorandum For Natural Science Grade 9 2015 Answers User Reviews and Ratings
 - Memorandum For Natural Science Grade 9 2015 Answers and Bestseller Lists

5. Accessing Memorandum For Natural Science Grade 9 2015 Answers Free and Paid eBooks
 - Memorandum For Natural Science Grade 9 2015 Answers Public Domain eBooks
 - Memorandum For Natural Science Grade 9 2015 Answers eBook Subscription Services
 - Memorandum For Natural Science Grade 9 2015 Answers Budget-Friendly Options
6. Navigating Memorandum For Natural Science Grade 9 2015 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Memorandum For Natural Science Grade 9 2015 Answers Compatibility with Devices
 - Memorandum For Natural Science Grade 9 2015 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Memorandum For Natural Science Grade 9 2015 Answers
 - Highlighting and Note-Taking Memorandum For Natural Science Grade 9 2015 Answers
 - Interactive Elements Memorandum For Natural Science Grade 9 2015 Answers
8. Staying Engaged with Memorandum For Natural Science Grade 9 2015 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Memorandum For Natural Science Grade 9 2015 Answers
9. Balancing eBooks and Physical Books Memorandum For Natural Science Grade 9 2015 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Memorandum For Natural Science Grade 9 2015 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Memorandum For Natural Science Grade 9 2015 Answers
 - Setting Reading Goals Memorandum For Natural Science Grade 9 2015 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Memorandum For Natural Science Grade 9 2015 Answers
 - Fact-Checking eBook Content of Memorandum For Natural Science Grade 9 2015 Answers
 - 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

Memorandum For Natural Science Grade 9 2015 Answers Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In today's fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free Memorandum For Natural Science Grade 9 2015 Answers PDF books and manuals is the internet's largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-to-use website interface and customizable PDF generator, this platform offers a user-friendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze. This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing financial barriers, more people can access educational resources and

pursue lifelong learning, contributing to personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free Memorandum For Natural Science Grade 9 2015 Answers PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of Memorandum For Natural Science Grade 9 2015 Answers free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

FAQs About Memorandum For Natural Science Grade 9 2015 Answers Books

What is a Memorandum For Natural Science Grade 9 2015 Answers PDF? A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. **How do I create a Memorandum For Natural Science Grade 9 2015 Answers PDF?** There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF. **How do I edit a Memorandum For Natural Science Grade 9 2015 Answers PDF?** Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. **How do I convert a Memorandum For Natural Science Grade 9 2015 Answers PDF to another file format?** There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. **How do I password-protect a Memorandum For Natural Science Grade 9 2015 Answers PDF?** Most PDF editing software allows you to add password protection. In Adobe Acrobat,

for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

Find Memorandum For Natural Science Grade 9 2015 Answers :

[haynes manual vw t3](#)

[haynes gmc s10 manual](#)

haynes manual 06 yamaha grizzly 80

haynes manual mk4 escort van

haynes chevrolet automatic transmission repair manual

[haynes manual 2004 2008 f150](#)

[haynes manual for ford mondeo mk3 diesel](#)

haynes manual 94 camaro

haynes manual jeep commander

haynes 2002 mercury sable repair manual

haynes ford escort mk5

haynes 81 impala manual

haynes manual mercedes s-class

haynes manual jeep

[haynes manual toyota yaris 2007](#)

Memorandum For Natural Science Grade 9 2015 Answers :

[pdf automatic selection of informative samples for svm based](#) - Feb 08 2023

web what we present below as competently as review automatic selection of training samples for multispectral what you in imitation of to read report summaries united

[automatic selection of training samples for multispectral 2023](#) - Jul 13 2023

web automatic selection of training samples for multispectral learning from training samples sep 17 2022 feature selection with limited training samples jul 03 2021

automatic selection of training samples for multispectral pdf - Jan 27 2022

web notice automatic selection of training samples for multispectral as skillfully as evaluation them wherever you are now computer techniques in environmental studies

citeseerx - Nov 05 2022

web sep 15 2023 image based spectral models assist in estimating the yield of maize during the vegetative and reproductive phenological phases the corn crop undergoes changes

automatic selection of training samples for multispectral pdf - Sep 22 2021

automatic selection of training samples for multispectral pdf - Feb 25 2022

web automatic selection of training samples for multispectral 2 6 downloaded from uniport edu ng on july 30 2023 by guest intelligent systems design and applications

automatic selection of training samples for multispectral 2022 - Jul 01 2022

web aug 1 2023 automatic selection of training samples for multispectral 3 6 downloaded from uniport edu ng on august 1 2023 by guest agricultural importance could be

automatic selection of training samples for multispectral pdf - Dec 26 2021

web automatic selection of training samples for multispectral 1 6 downloaded from uniport edu ng on july 22 2023 by guest automatic selection of training samples

[automatic selection of training samples for multispectral image](#) - Aug 14 2023

web automatic selection of training samples for multispectral image classification cazes t b feitosa r q mota g l a abstract the present work presents and evaluates a

[sensors free full text efficient training](#) - May 11 2023

web personnel selection and training in the fbi jul 14 2020 the selection and training of the business executive dec 11 2022 driver selection and training wheeled

[automatic selection of training samples for multispectral](#) - Jan 07 2023

web we would like to show you a description here but the site won t allow us

[automatic selection of training samples for multitemporal image](#) - Mar 09 2023

web jul 16 2010 automatic selection of informative samples for svm based classification of hyperspectral data using limited training sets july 2010 doi

[agronomy free full text defining the ideal phenological](#) - Sep 03 2022

web dec 8 2022 automatic selection of training samples for multispectral is available in our book collection an online access to it is set as public so you can download it

automatic selection of training samples for multispectral - May 31 2022

web automatic selection of training samples for multispectral that you are looking for it will entirely squander the time however below subsequent to you visit this web page it

[automatic selection of training samples for multispectral pdf](#) - Oct 04 2022

web right here we have countless book automatic selection of training samples for multispectral and collections to check out we additionally give variant types and after

[automatic selection of training samples for multispectral](#) - Nov 24 2021

web mar 25 2023 selection of training samples for multispectral as you such as by searching the title publisher or authors of guide you essentially want you can discover

[automatic selection of training samples for multispectral 2023](#) - Mar 29 2022

web aug 6 2023 getting this info acquire the automatic selection of training samples for multispectral connect that we come up with the money for here and check out the link

automatic selection of training samples for multitemporal image - Jun 12 2023

web the present work presents and evaluates a method to automatically select training samples of medium resolution satellite images within a supervised object oriented

automatic selection of training samples for multispectral - Aug 22 2021

automatic selection of training samples for multispectral pdf - Apr 29 2022

web automatic selection of training samples for multispectral the selection and training of instructors aug 10 2022 the selection and training of the business executive jun

automatic selection of training samples for multispectral book - Aug 02 2022

web automatic selection of training samples for multispectral is available in our digital library an online access to it is set as

public so you can get it instantly our digital library

[automatic selection of training samples for multispectral pdf](#) - Oct 24 2021

web jan 19 2023 acquire the automatic selection of training samples for multispectral connect that we give here and check out the link you could buy lead automatic

[automatic selection of training samples for multispectral book](#) - Apr 10 2023

web sep 29 2004 based on the automatic selection and labeling of training samples the crop classification method based on spatiotemporal deep learning fusion technology can

[selection of training sets for the characterisation of](#) - Dec 06 2022

web jul 13 2023 automatic selection of training samples for multispectral and numerous book collections from fictions to scientific research in any way accompanied by them is

template - Sep 22 2021

[atlas of rock forming minerals in thin section academia edu](#) - Dec 26 2021

web title microsoft word template author cameron created date 3 7 2012 3 08 56 pm

[atlas of metamorphic minerals university of oxford](#) - Aug 14 2023

web rock forming minerals of metamorphic rocks in thin section a work in progress 1 olivine forsterite olivine forsterite in marble plane polarised light width of view 2 5 mm

rocks in thin section geohub liverpool - Jul 01 2022

web jan 12 2020 resources minerals in thin section atlas of metamorphic minerals ret 1 12 2020 earth ox ac uk oesis atlas metmins index html hollocher kurt

[atlas of metamorphic rocks university of oxford](#) - Jan 07 2023

web atlas of metamorphic rocks and their textures b w d yardley w s mackenzie c guilford longman scientific technical 1990 science 120 pages the study of

[rocks and minerals in thin section a colour atlas google books](#) - Aug 02 2022

web dec 16 2022 1 look at the whole thin section and at a hand specimen if available what kind of rock is it how many different major minerals does it contain what are

[rocks and minerals in thin section a colour atlas w s](#) - Sep 03 2022

web the thin sections covering a range of igneous metamorphic and sedimentary rocks were chosen to show the diagnostic properties of 10 of the main rock forming minerals

[atlas of rock forming minerals in thin section google books](#) - Feb 25 2022

web hurray for mackenzie and guilford for at last we have a pictorial guide to the rock forming minerals such as those of colour in mineralogy books are rare atlas of the rock

a colour atlas of rocks and minerals in thin section wiley - Mar 29 2022

web atlas of rock forming minerals in thin section paul cornejo see full pdf download pdf see full pdf

atlas of igneous and metamorphic rocks minerals and textures - May 11 2023

web nov 14 2016 this website provides photomicrographs of minerals and rocks in thin section the images are subdivided into minerals plutonic microtextures volcanic

rogers atlas of rocks in thin section strabospot - Jul 13 2023

web welcome to the rogers atlas of rocks in thin section this site comprises 130 images of whole petrographic thin sections mostly in paired plane and polarized light views

atlas of metamorphic rocks and their textures google books - Dec 06 2022

web the book highlights the important diagnostic features of minerals and deals with all rock types igneous sedimentary and metamorphic each with equal emphasis and

ebook atlas of metamorphic rocks in thin section - Jun 12 2023

web atlas of metamorphic rocks in thin section metamorphic rock mar 10 2021 helps explain what metamorphic rock is and how it forms describes how metamorphic rock

5 7 identifying minerals and mineral properties in thin section - May 31 2022

web the book highlights important diagnostic features of minerals and deals with all rock types igneous sedimentary and metamorphic with equal emphasis and authority giving

rocks and minerals in thin section second edition a colour - Mar 09 2023

web the book highlights the important diagnostic features of minerals and deals with all rock types igneous sedimentary and metamorphic each with equal emphasis and

oxford earth sciences image store university of oxford - Apr 10 2023

web atlas of metamorphic minerals in thin section a work in progress

atlas of metamorphic rocks and their textures - Jan 27 2022

web aug 1 2022 it can be applied to clastic rocks carbonate rocks igneous rocks metamorphic rocks and others and be compatible with polarizing thin section cast

rock thin section analysis and identification based on artificial - Oct 24 2021

2 9 atlas of minerals in thin section geosciences - Feb 08 2023

web atlas of metamorphic rocks detailed field and hand specimen photographs of metamorphic rocks grouped by setting and composition regional low low grade

2 9 atlas of minerals in thin section introduction to petrology - Apr 29 2022

web atlas of rock forming minerals in thin section w s mackenzie c guilford wiley jul 23 1980 science 98 pages atlas of rock forming minerals in thin section this full

rocks and minerals in thin section a colour atlas - Nov 05 2022

web nov 15 2017 this concise clear and handy sized volume aimed at the undergraduate level provides an introduction to the observation description and identification in thin

atlas of the rock forming minerals in thin section - Nov 24 2021

rocks under the microscope university of oxford - Oct 04 2022

web nov 2 2017 the book highlights the important diagnostic features of minerals and deals with all rock types igneous sedimentary and metamorphic each with equal

automatic street light project using arduino techatronix - Jan 09 2023

web aug 15 2021 in this article we are going to make an automatic street light control system by using an ldr and arduino uno development board there is a problem associated with the street lights that they keep on during the daytime or early in the morning when there is no need for artificial light

iot based smart street light project using nodemcu esp8266 - May 13 2023

web jun 19 2019 in this project we are demonstrating the prototype of the smart street light with 3 ir sensors 1 ldr sensor and 3 leds each representing one street light we will also update the ldr sensor data to the thingspeak and control the leds street lights over the internet from anywhere in the world components required esp8266

automatic street light using ldr 4 steps instructables - Mar 11 2023

web automatic street light using ldr save electricity by this simple project it glows during night and switches off automatically as the sun rises i have tried a lot of circuits but i made one and this works perfectly it is a project depicting the automatic street light project using ldr and op amp ic - Apr 12 2023

web nov 26 2020 this is the automatic street light project this can turning on and off the street lights automatically without human interference it automatically turns on the street light when the surrounding is dark night and it automatically turns off the street light when it receives light from the surroundings daylight

pdf automatic streetlights that glow on detecting night and - Jun 14 2023

web jun 28 2018 in this project the ldr sensor is used to point a day night time and also the microcontroller is used which is

able to detect brightness of sunlight and the gsm module that acts on back side

diy smart street light using ir sensor and ldr module arduino project - Aug 04 2022

web apr 26 2023 hey friends in this video we are designing smart street light step by step hope you will be able to learn how to design smart street light i am using ir se

ldr sensor with arduino smart street lights projects light - Feb 10 2023

web part 26 what is ldr how it works how to use ldr with arduino and make automatic street lamp project understand analog digital sensors you tube ej

smart street light system using iot florida international - Feb 27 2022

web the main objective of this project is to save the unwanted consumption of light the lights are switched on only when required the smart street light system automatically switches the lamps based on the motion sensed by the pir sensor also the leds can be controlled from an android application the intensity of the leds can also be

circuit design smart street light system tinkercad - Jun 02 2022

web circuit design smart street light system created by sai anjan with tinkercad

smart street light project using arduino ldr and ir sensors - Mar 31 2022

web jan 12 2022 what sensors do smart street lights use the sensors used in a street light project using arduino are ir sensors or ultrasonic sensors other components are arduino uno two ir sensors light depending resistor ldr two 220Ω resistors one 1 kΩ resistor two leds what are the advantages of smart street lights the smart

smart street light project using arduino ldr and ir sensors - Aug 16 2023

web dec 8 2021 instead of turning on the street lights for the entire night we can design a low cost and efficient smart street light system using the arduino ir sensors or ultrasonic sensors and some other basic electronics components

automatic night lamp street light arduino maker pro - Jul 15 2023

web mar 13 2020 how does the sensor work the sensor works by creating a voltage divider the ne555 will only work when pin 4 is high else it will not work the characteristic of the sensor is that when there is light the resistance will be low

iot based smart street light management system ieee xplora - Nov 07 2022

web dec 21 2017 iot based smart street light management system abstract the aim of automated streetlight management system using iot is the conservation of energy by reducing electricity wastage as well as to reduce the manpower

automatic street light control circuit using ldr transistor - May 01 2022

web features it is a dark detector circuit based on ldr and a transistor bc 547 npn which automatically switches on and off the street light system it automatically switches on street lights when the sunlight goes below the visible region of our eyes e.g. in the evening after sunset

how to make automatic night light sensor project circuits diy - Oct 06 2022

web nov 3 2021 an automatic night light sensor is an electronic device that can sense the light sensitivity in the surrounding area determine whether it s day or night in this tutorial we are going to make an automatic night light sensor project it has various applications and can be utilized at so many places at night

sensörlü led projektör fiyatları ve modelleri hepsiburada - Dec 28 2021

web helios opto 20w mikro radar sensörlü smd led projektör beyaz 6500k hs 3821 1 413 08 tl toplam 24 71 ürün aradığınız ürünü bulabildiniz mi

automatic street night light circuit using ldr diy project - Jul 03 2022

web jul 29 2021 an automatic street night light as the name suggests is an electronic street light that switches itself on off without the need for any human intervention it senses the intensity of light from its immediate surroundings determines whether it s day or night

automatic street light controller system using ldr and pir sensor - Jan 29 2022

web system can be implemented in park light street light room light smoke detection and person detection the automatic street light system does not need manual work to switch on and off lights the system itself detects whether there is a need for light or not keyword arduino uno ldr sensor pir sensor led resistor light control 1

automatic street light control by detecting vehicle movement - Sep 05 2022

web jan 1 2018 the proposed street lighting automation system is designed using light dependent resistor ldr ir sensor and raindrop sensor for day or night detection vehicle detection and rainfall detection

smart city recent advances in intelligent street lighting - Dec 08 2022

web nov 30 2022 this paper reviews the current trends in smart street lighting with emphasis on the selection of the type of lamp and the method of controlling the light intensity as well as the approach to connect the sensors together to remotely control the lights record the weather conditions and diagnose lamp failure remotely