

# TARGET CBSE BIOLOGY CLASS XII

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### Target CBSE Biology Class XII: Questions and Answers

**1. Define biodiversity and explain its importance to the environment.**

Biodiversity refers to the variety of life on Earth, including all living organisms, their genetic material, and the ecosystems they inhabit. Its importance lies in maintaining ecosystem stability, providing resources for human use, and supporting essential ecological processes such as pollination and nutrient cycling.

**2. Describe the structure and function of an ecosystem, including the biotic and abiotic components.** An ecosystem consists of living (biotic) and non-living (abiotic) components that interact to form an interconnected system. Biotic components include plants, animals, and microorganisms, while abiotic components include water, soil, sunlight, and atmospheric gases. Ecosystems function through interconnected relationships, such as food chains, nutrient cycles, and energy flow.

**3. Explain the principles of natural selection and how they contribute to evolution.** Natural selection is the process by which organisms with advantageous traits have a higher chance of survival and reproduction. Over time, favorable traits become more common in a population, leading to gradual evolution. Natural selection acts on genetic variation, allowing populations to adapt to changing environmental conditions.

**4. Discuss the ethical implications of biotechnology, including genetic engineering and cloning.** Biotechnology has the potential to alter human and animal life in significant ways. Genetic engineering, for example, allows for the modification of an organism's DNA. While biotechnology offers potential benefits, it also raises ethical concerns about the creation of genetically modified organisms, the

potential risks to human health, and the consequences for ecosystems.

**5. Explain the role of microorganisms in the cycling of nutrients and the biosphere.** Microorganisms are essential for nutrient cycling in ecosystems. They break down organic matter, releasing nutrients back into the environment where they can be used by plants and other organisms. Additionally, some microorganisms participate in nitrogen fixation, converting atmospheric nitrogen into forms usable by plants. Microorganisms play a crucial role in maintaining the biosphere and ensuring the availability of essential nutrients for all life forms.

**What is the summary of the machine that changed the world?** Based on MIT's pioneering global study of industrial competition, *THE MACHINE THAT CHANGED THE WORLD* offers a groundbreaking analysis of the entire lean business system, including product development, supplier management, sales, service, and production - an analysis even more relevant today as GM and Ford struggle to ...

**Who is the inventor of Lean manufacturing?** Henry Ford was the first person to integrate the idea of lean into a manufacturing system. Eli Whitney, in 1799, proposed the idea of interchangeable parts. Henry Ford, who had experimented with interchanging and moving different parts in order to standardize work, proposed the flow of production in 1913.

**How can lean production change the world summary?** Instead of waiting until the very end of the assembly line to fix mistakes, the lean production system encourages workers, not just managers, to raise the red flag on defective parts so they can quickly investigate and get to the root of the problem.

**What is the poem The Secret of the machines about short summary?** Answer: The poem "The secret of the machines" by Rudyard Kipling deals with the problem of modern technology and automation. In the beginning the reader gets informed about how machines are produced and what kind of treatment they need. Afterwards the machines explain how they can serve humanity.

**Who made the biggest contribution to Lean?** History of Lean Henry Ford was the first to truly integrate a production system called 'mass-production', which manufactures large quantities of standardized products. Ford created what he called a flow production, which involves continuous movement of elements through the

production process.

**Who developed the Lean theory?** The principles of Lean, although first developed by Toyota and applied to manufacturing processes, have subsequently been applied to many different industries.

**Who created the Lean model?** The term Lean was coined in 1988 by American businessman John Krafcik in his article "Triumph of the Lean Production System," and defined in 1996 by American researchers James Womack and Daniel Jones to consist of five key principles: "Precisely specify value by specific product, identify the value stream for each ...

**What is the summary of human machine?** Brief summary Human + Machine explores the potential of artificial intelligence (AI) to enhance human capabilities and transform industries. The book offers practical guidance on how to integrate AI into business strategies for maximum impact.

**What is the summary of modern machine?** Modern machines are complex systems that consist of structural elements, mechanisms and control components and include interfaces for convenient use.

**What machine changed the world?** The steam locomotive were the first machines to begin the divorce between Homo sapiens and horses, humanity's preferred mode of transportation since the beginning of recorded history.

**What is the book inventions that changed the world about?** This book looks at some of the most significant inventions from ancient times to the present day, including developments within printing, mathematics, navigation, weapons, flight, communications and computers. Explores these innovations and the impact they have had on our world and our lives.

**How do I get reading from Landis Gyr?** Start by pressing the 'A' button on the meter to wake it up. If you have a two rate meter, also known as a dual-rate meter, you can get the second reading and the total reading by pressing the 'A' button for a second and third time. And that's it!

**How do I turn the electricity back on my Landis Gyr?**

**How do I turn on Landis Gyr?** Press A (red button) to wake the meter up. Press A again till you get to the screen that says, 'Credit Entry,' then press B (black button) for yes.

**Where is the meter serial number on a Landis Gyr?** The meter serial number (MSN) is a combination of letters and numbers that identify the actual meter. They'll be on your meter box: On standard meters the MSN is usually printed above or below the barcode and is between nine and 12 digits long. This should match the MSN written on your statements.

**How do I check my Landis Gyr balance?** You can read the instructions below: Press the 'A' button to wake up the meter. Now press and hold the 'A' button again until you see your balance displayed on the screen.

**What button do I press on smart meter to get reading?**

**Does Landis Gyr meter have a battery?** The local and currently valid legislation must be observed. The meter contains lithium batteries.

**What happens when my prepaid electricity runs out?** Automatic Disconnection for Non-Payment: If the prepaid meter runs out of credit, the electricity supply is automatically disconnected.

**Is Landis Gyr gas or electric?** Landis+Gyr makes meters and related software for electricity and gas utilities.

**How do I get my electric back on?** If there's no electricity the first thing to check is the fuse box to see if you can turn the power back on. The fuse box is often found next to the meter at the point where the electrical wire enters your property from the mainline.

**Why is my Landis Gyr meter beeping?** The Landis & Gyr Meters have an audible alarm (beeping) to warn you of low credit. To turn off this alarm using the meter keypad, press and hold the 0 (zero) button for 3 seconds.

**Is the Landis Gyr a smart meter?** From an interoperable Head End System as communication and data collection layer between smart meters and utility systems to

advanced multi-energy meter data management systems, Landis+Gyr offers a range of software to help you get the most out of your metering infrastructure.

### **How to turn electricity back on with a smart meter?**

**What is code 30 on Landis Gyr?** Error 30 indicates that the keypad and the meter are not communicating correctly.

### **How do you read a Landis Gyr electric meter?**

**How do I find my Landis Gyr meter number?** To view your meter number, enter i000 on your Landis & Gyr meter keypad. The meter number will be displayed.

**How do I turn my Landis Gyr gas meter back on?** Landis + Gyr G470-672/682  
The screen will display the message 'Appliances OFF? Hold A for Gas'. Press and hold the red A button until you see the message 'Release A for gas'. Take your finger off the button and wait (this can take over a minute).

### **How do I load electricity into my Landis Gyr?**

**How do I find my smart meter readings?** As each type of smart meter has its own way to take a reading, the best thing to do is press the buttons to scroll through the screens. You're looking for a screen with a row numbers in front of the letters 'KWH'. This is your meter reading. Once you've found the right screen, read the numbers from left to right.

### **What are the two buttons on a smart meter for?**

**What do I press to get a meter reading?** Smart meters with a green button labelled 'A' Press the green button until you see 'Total Act Import'. A reading should appear followed by 'kWh'. For two rate meters or Economy 7 meters, your meter will have a '01' and a '02' reading, which you'll find by pressing the 'A' button. You should record both numbers.

**How to check balance on Landis Gyr?** Press the A button to light up your display screen to view your meter balance. Press the A button twice and then the B button. Press the A and B buttons to enter your top-up code (UTRN). A will let you scroll through digits and B selects and moves to the next number.

**What is the exclamation mark on the Landis Gyr meter?** The meter displays an exclamation mark ! when the credit on your meter is running low. Enter a token to ensure that you do not run out of electricity.

**What frequency does Landis and Gyr smart meter use?** The module transmits and receives data through a robust, peer-to-peer mesh network utilizing the 902 to 928 MHz unlicensed frequency.

**How do I get my electric meter to show reading?** As each type of smart meter has its own way to take a reading, the best thing to do is press the buttons to scroll through the screens. You're looking for a screen with a row numbers in front of the letters 'KWH'. This is your meter reading. Once you've found the right screen, read the numbers from left to right.

**How do I watch my meter reading?**

**How do I enter my Landis Gyr meter code?**

**How to get export meter reading?** Depending on your meter configuration, press either 6 or 9 on the keypad until you see 'EXP kWh' followed by 8 digits. You'll then see 8 digits (e.g. 0000369.4) followed by kWh at the bottom right of the screen. This will be your export reading. This is your read, so for this example your reading would be 369kWh.

**Why is my electric meter not showing a reading?** If the screen is blank or showing a message such as 'error', 'call help' or 'battery', there's probably a fault with the meter. Tell your supplier straight away or you could be left with no energy. If your electricity or gas has already stopped, your supplier has to send someone to repair or replace the meter.

**How do I read my own electric meter?** When reading an electric meter, read and write down the numbers as shown on the dials from right to left. When the pointer is directly on a number, look at the dial to the right. If it has passed zero, use the next higher number. If it has not passed zero, use the lower number.

**How do you check meter reading is correct or not?**

## **How to read electric meter landis gyr E470?**

**How to check load of electricity meter?** Meters are read in the following manner: All the static meters are having display window/panel and are having different display sequence & legends for different parameters, energies & demand. These parameters can be seen from display panel using push button.

**How to check meter balance?** -Type in “801” on your metre and press the 'enter' button to check your prepaid metre balance. As soon as you type in any of those codes depending on your prepaid metre, and then press enter, your prepaid metre balance will be displayed on your screen.

**Is the Landis Gyr a smart meter?** From an interoperable Head End System as communication and data collection layer between smart meters and utility systems to advanced multi-energy meter data management systems, Landis+Gyr offers a range of software to help you get the most out of your metering infrastructure.

**How to check meter number on Landis Gyr?** To view your meter number, enter i000 on your Landis & Gyr meter keypad. The meter number will be displayed.

**What is code 30 on Landis Gyr?** Error 30 indicates that the keypad and the meter are not communicating correctly.

**How do I find the export meter read on Landis Gyr?** Landis & Gyr E470 Press and hold the green 'A' button for 3-5 seconds to get the time, and then keep pressing A to cycle through until you see Total Act. Export.

**What do I press to get a meter reading?** Smart meters with a green button labelled 'A' Press the green button until you see 'Total Act Import'. A reading should appear followed by 'kWh'. For two rate meters or Economy 7 meters, your meter will have a '01' and a '02' reading, which you'll find by pressing the 'A' button. You should record both numbers.

**How do I get a meter reading key?** If you lose the key to your outdoor meter cabinet, we are happy to send you a replacement. Call 1800 372 757 or +353 21 2386555.

## **The Prince of Central Park: Unraveling the Mystery**

Central Park, the iconic oasis amidst the hustle and bustle of Manhattan, holds a captivating secret known as "the Prince of Central Park." This enigmatic figure, a lost boy from the early 20th century, has left behind a trail of clues and unanswered questions.

### **Who was the Prince of Central Park?**

The Prince of Central Park's identity remains a mystery. He is believed to be between 3 and 5 years old when he disappeared in 1958. His distinctive features include dark hair, blue eyes, and a cleft chin. Despite extensive searches and media attention, his family has never been found.

### **How did the Prince come to live in Central Park?**

Theories abound about how the Prince came to reside within the park's boundaries. Some speculate that he was abandoned by his parents due to poverty or neglect. Others believe he wandered away from home and became disoriented in the vastness of the city.

### **What clues have been found?**

Over the years, several clues have surfaced that may shed light on the Prince's identity. In 2015, a photo was discovered of a boy resembling the Prince at a 1957 orphanage. Additionally, a hand-carved wooden name tag with the name "George" was found in Central Park in 1986.

### **What is the park's connection to the Prince?**

Central Park has played a pivotal role in the Prince's legend. He is believed to have slept in caves and shelters within the park's perimeter. Reports of sightings have been numerous, with many claiming to have seen a small boy wandering the park alone.

### **What is the legacy of the Prince of Central Park?**



The Prince of Central Park has become a poignant symbol of lost childhood and the enduring power of the unknown. His story has inspired countless articles, books, and documentaries. The mystery of his identity continues to captivate the imaginations of New Yorkers and people around the world. As the search for the Prince continues, his legacy as a timeless enigma of Central Park remains firmly etched in the tapestry of the city's history.

[the machine that changed the world the story of lean production by womack james p jones daniel t roos daniel published by productivity press 1991, landis gyr rvl 4110, the prince of central park](#)

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