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explanations and step-by-step approach. It covers important topics like cell biology, plant physiology, animal physiology, genetics, and ecology. All chapters are well-organized and include diagrams and exercises given at the end of each chapter. It follows the latest CBSE syllabus and is useful for both board exams and competitive exams like NEET.
The book helps students understand basic concepts easily. New NCERT Book for Class 11 Biology Class 11 Biolo
referring to the Biology textbook, students improve problem-solving skills and understand science better. The NCERT book focuses on understanding concepts, not just memorisation. It also includes practical activities and real-life examples to improve understanding. Students can download the PDF to get easy access to the full syllabus and important
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wise)Students can check the table below to see the units and chapters involved in the biology book. This will help them plan their studies better. All the chapters are well-explained and in easy language. Students can also find NCERT 11th
Biology Textbook Chapter NamesGiven below are the biology units along with the respective chapter names. The Hindi version of this book is titled "Jeev Vigyan", and all chapters are also available in Hindi language with corresponding names. Benefits of the NCERT Book for CBSE Class 11 BiologyThis book offers many advantages that support smart
and effective learning. It helps students stay focused and understand each topic at their own pace. The NCERT Class 11 Biology Book follows the latest CBSE syllabus, so students study the right topics. It explains each concept and topic in simple and easy language. Covers all important topics that are often asked in board and competitive exams. The
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are some simple tips to use the Class 11 Biology book PDF effectively: First, a student must check the NCERT syllabus carefully to know what topics they need to study. Make a proper study timetable and prepare NCERT Biology Class 11 notes. Focus on a strong understanding of the concepts instead of just memorising them. Practice previous years'
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class 11 biology very hard? Class 11 Biology can feel difficult at first because it has a lot of theory and new terms. However, with regular study and proper understanding, it becomes easier. If students stay consistent and revise regularly, they can score well.3. Is the 2025-26 NCERT Biology book updated according to the latest syllabus? Yes, the 2025-
26 edition is updated and aligned with the revised syllabus and curriculum framework. Is NCERT enough for NEET? Biology, as most questions from other reference books. 5. Does the
NCERT Biology book include chapter summaries and exercises? Each chapter ends with a summary and a set of questions for self-assessment and revision. View All School Exams A block of mass 0.50 kg is moving with a speed of 2.00 ms-1 on a smooth surface. It strikes another mass of 1.00 kg and then they move together as a single body. The energy
loss during the collision is Option 1) Option 2) Option 3) Option 4) A person trying to lose weight by burning fat lifts a mass of 10 kg upto a height of 1 m 1000 times. Assume that the potential energy lost each time he lowers the mass is dissipated.
supplies 3.8 \times 107 J of energy per kg which is converted to mechanical energy with a 20% efficiency rate. Take g = 9.8 ms-2: Option 1) 2.45 \times 10 - 3 kg Option 2) 6.45 \times 10 - 3 kg Option 3) 9.89 \times 10 - 3 kg 
Option 1) Option 2) Option 3) Option
to be the relative atomic mass unit, the mass of one mole of a substance will Option 1) decrease twice Option 2) increase two fold Option 3) remain unchanged Option 3) remain unchanged Option 3) Fraction
of solute present in water Option 4) Mole fraction. Number of atoms in 558.5 gram Fe (at. wt.of Fe = 55.85 g mol-1) is Option 1) twice that in 8 g He Option 2) 6.023 × 1023 A pulley of radius 2 m is rotated about its axis by a force F = (20t - 5t2) newton (where t is measured in
 seconds) applied tangentially. If the moment of inertia of the pulley about its axis of rotation is 10 kg m2, the number of rotations made by the pulley before its direction of motion if reversed, is Option 1) less than 3 Option 2) more than 3 Option 2) more than 3 Option 3) more than 6 Option 3) more than 9 Option 4) more than 9 Issue-II - Vol-XIII, December, 2024
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Cell DivisionUnit 4 - Plant PhysiologyUnit 5 - Human PhysiologyUnit 5 -
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exam questions. Practice labeling them without looking to strengthen retention. Solve NCERT-based MCQs after every chapterUse NEET books or apps that focus only on NCERT-style questions. You'll quickly notice how often questions are direct or slightly twisted versions of NCERT lines. Conclusion And that's a wrap on the Class 11 NCERT Biology
book - one PDF, all chapters, and a clear plan to use it smartly. At first, it feels like a giant syllabus dump, but once you've got the full book, chapter-wise links, and some study hacks? It's way more doable. If this blog made even one thing clearer, that's a win. Notes sorted, links legit, and one less thing to stress about. FAQs Q1. How many chapters are
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 known as life science or science or life. NCERT books for Class 11 Biology serve as the best source of fundamental concepts of Biology. Students to explore their knowledge about their daily life as well. Both plant and animal
kingdom, which is equally important for the board and NEET Exam are discussed here. So, students can download NCERT Biology Class 11 PDF anytime to increase their grip on the subject for both Exams efficiently. Chapter Wise Overview of Class 11 Biology NCERT PDF BookThe entire Biology syllabus of the CBSE board is divided into four units
 where each unit comprises several Chapters. Let's start with unit 1, which includes four sections. Unit 1: Diversity in the Living WorldChapter 1: The Living WorldChapter 1: The Living WorldChapter of NCERT books for Class 11 Biology begins with a wide range of living organisms present in this ecosystem. While explaining the definition of living things, this Chapter
also represents the ecological clash and cooperation among these members. Students can learn about various physiological systems that help living beings sustain and carry forward their species. This Chapter further encapsulates the prevailing diversity that is prominently visible in every part of the world, irrespective of weather and environment.
Also, the taxonomic categories and taxonomical aids of these living organisms are explicitly described here. 1. Respiration occurs all the time in living organisms. In this process, organisms take in oxygen (O2) from the atmosphere and give out carbon dioxide (CO2). Oxidation of fats and proteins takes place and energy is released. It is
 from this free energy that all the biological activities of living beings are conducted. Respiration is a catabolic reaction.2. Reproduction is also a characteristic of organisms. The meaning of reproduction is also a characteristic of organisms also a characteristic of organisms are conducted. Respiration is also a characteristic of organisms also a characteristic of organisms.
reproduce asexually. Fungi multiply by millions of asexual spores and are easily propagated. Reproduction in planaria (flatworms). True regeneration takes place i.e. a fragmented organism regains (lives) the lost part of its body and thus becomes a new
organism. Fungi, fibrous algae, protonema of moss all fission (fragmentation) method. Chapter 2: Biological Classification for the sake of their uses like shelter, clothing, and food. Aristotle first attempted to Classify them scientifically. He divided the plant
 kingdom into three Classes - herbs, shrubs, and trees. Moreover, he also Classified the animal kingdom into two sections - animals with red blood and the other which did not have. This second Chapter of the 11th NCERT Biology PDF deals with this scientific Classification process and also explains five different Classes like Monera, Protista, Fungi,
 Plantae, and Animalia, and also about Viroid, Viruses, and Lichens. Protozoan AnimalThese kingdoms are the simplest eukaryotic, microscopic, heterotrophic animals that come under Protista. They are unicellular. All biological activities take place in the cell. They are hosts. Some protozoa are parasitic. (a) Amoebic Protozoa :They are clean aquatic or
marine. Some are also found in moist soil. Marine types of amoebic protozoa such as entamoeba are parasitic. Causes of Entamoeba histolytica in humansAmoebic dysentery is a disease.(b) Flagellate Protozoa such as entamoeba are parasitic.
are either independent or parasitic. The protective covering on their body is a pellicle. Flagella is helpful in circulation and nutrition. Trypanosoma parasitic and have a lot of ciliates. The body is surrounded by a rigid pellicle.
They have permanent cytostomes and cytopyge. Due to the rhythmic movement in the ciliary, the food reaches the cytoplasm. Example: Paramecium(d) Sporozoa Protozoans: They are intra-parasitic. They lack circulation. pellicle on cellThere is a cover. Infectious spores are formed during their life cycle. Malaria disease caused by the malaria parasite.
 Plasmodium a few decades ago affected the human population. Virus: These were first discovered by Ivanovsky, (Iwanovsky, 1892). These are also filtered through proof filters. M.W. Beijerinck (M.W. Beijerinck, 1898) found that rubbing the sap of infected (diseased) plants on the leaves of healthy plants can also cause disease to healthy plants. On this
 they come in contact with living cells. The nucleic acid of the virus reaches the host cell and controls the metabolic activities of the cell and starts self-multiplication and also synthesizes the number of viruses, that is, reproduction. Propagation in viruses occurs only in living cells. Genetic variations arise
due to mutation in them. Viruses respond to heat, chemical substances, radiation, and other stimuli. Chapter 3: Plant Kingdom From the previous topic, students have learned about the five Classifications of the plant kingdom. In this Chapter of Class 11 Biology book PDF, they can gather knowledge about Kingdom Plantae or plant kingdom and its
further Classifications. The entire plant kingdom is Classified into five sections - Algae, Bryophytes, Pteridophytes, Pterido
plants and also their alteration of generation. Thus, students can achieve a firm base about the plant kingdom, its taxonomy. Economic Importance Of Algae accounts for 50% of the photosynthesis on Earth. Algae as Food: Algae accounts for 50% of the photosynthesis on Earth. Algae are rich in carbohydrates, minerals, and vitamins. Porphyra, Alaria, Alva, Sargassum (Sargassum), Laminaria, etc. in
the form of food itemProteins are abundant in Chlorella. Vitamins are found. It is being recognized as the food of the future. With this, there is every possibility of solving the food problem of our growing population. 2. Algae in Industry: Fossils/dead bodies of diatoms form diatomaceous earth or Kiselghur. This soil tolerates 1500°C temperature. It is
used in a variety of industries; For Example, metal coating, varnish, polish, toothpaste, insulating surface, etc. It is used in making cosmetics, shampoo, etc. It is used in the manufacture of non-flammable films, synthetic fibers, etc. It is also
used to stop blood flow during surgery. Iodine, bromine, etc. are obtained from many seaweeds. The antibiotic chlorellin is obtained from red algae, it is
used for artificial culture. Economic Importance Of GymnospermsOrnamental Plants: Plants like Soicus, Pinus, Arqucurid, Ginkgo, Thuja (Thujq), Cryptomeria etc. are used for decoration. Plants etc. are used for decoration. Plants like Soicus, Pinus, Arqucurid, Ginkgo, Thuja (Thujq), Cryptomeria etc. are used for decoration. Plants like Soicus, Pinus, Arqucurid, Ginkgo, Thuja (Thujq), Cryptomeria etc. are used for decoration.
food.Wood for Furniture: Wood obtained from pine (Pinus), cedar (Cedrus), cal (Pinus wallichiana), fur (Abies) is used as furniture and timber. Chapter of NCERT Class 11 Biology book PDF deals with the Kingdom Animalia and a systemic Classification process where all known members can be assigned to a Class
scientifically. The first half of this Chapter explains what the basis of this Classification system is. The taxonomical factors include organization, and notochord. Furthermore, the second part of this topic is about the Classification of this kingdom on the basis of
corrosive, twisted, cortical, or vexillary type.(b) Placementation: The arrangement of ovules on the placenta in the ovary is called the ovary. Seedlings are of the marginal, columnar, periphery, free columnar, base ascendant or surface type.(c) Actinomorphy: When a flower can be divided into two halves by cutting it from any central perpendicular
axis, then it is called actinomorphic.(d) Zygomorphy: When the flower can be divided into two halves only by one central perpendicular axis, then it is called monodia symmetry.(e) Superior Ovary: When the flower emerge from the bottom of the ovary, then the flower emerge from the bottom of the ovary is called an ovary and the ovary is called superior.(f) Perigynous
 flowers: If the floral part emerges from the same height as the ovary from the inflorescence, then such flowers are called perigynous. In this, the ovary is half superior. (g) Epipetalous Stamens: When the stamens are attached to the stamens are attached to the stamens are attached to the stamens.
the ground store food. In these, festivals and festivals and festivals and festivals can be seen. Their length increases through anterior buds and branches through orbital buds. some buds. manufactures pneumatic shoots when required; For Example, ginger, banana, kelly, fern, turmeric, etc. 2. Corm: Their symptoms are like rhizomes, but they are vertically growing
 underground stems. In this type of stem, there are also festivals and festivals and festivals or festivals or festivals or the tuber, which are not
sheets present on this stem. Under favorable conditions, aerial shoots are formed from the bud present at the anterior end of the stem. Orbital buds are also formed in the cell of scale sheets. Example- Onion, garlic, lily etc. Scale tubers. Unit 2: Structural Organisation in Plants and AnimalsFrom here, the second unit of the syllabus starts. This unit
includes three consecutive Chapter 5: Morphology of Flowering PlantsMorphology of Flowering Plan
common flowering plants and explains the typical characteristics of some vital plant families. Chapter 6: Anatomy of Flowering PlantStructural variations and similarities can be spotted easily by observing the living organism. However, anatomy is the study of internal structural variations and similarities can be spotted easily by observing the living organism. However, anatomy is the study of internal structural variations and similarities can be spotted easily by observing the living organism.
 Biology 11th NCERT PDF book provides a detailed description of the functional organization and internal structure of higher plants. In other words, this Chapter teaches about the different types of tissues found in plant bodies and tissue systems based on the location. The anatomy of monocotyledonous and dicotyledonous plants is also elaborately
described in this Chapter. Moreover, students can get to know about two different growth of plants- primary and secondary growth. Chapter of Class 11 Biology NCERT book PDF, students can get to know about two different growth of plants- primary and secondary growth. Chapter of Class 11 Biology NCERT book PDF, students can get to know about two different growth of plants- primary and secondary growth.
organisms perform all of their life processes like respiration, reproduction, digestion, etc. with the help of a single cell. At the same time, multicellular organisms use various organs developed by different functions. So, this Chapter is all about various animal tissues, cells, organs and their systems, functions, etc. As an
 Example, students can see the morphological and anatomical structure of earthworms, cockroaches, and frogs. All these animals represent vertebrates and invertebrates and invertebrates and invertebrates and invertebrates. So, students can have an idea about animal structure by learning about these animals. Unit 3: Cell: Structure and FunctionNow, this CBSE Class 11 Biology book has come to
another new unit. This unit has three Chapters in it, and they are all about the function and structure of the cell. Chapter 8: The Unit of LifeThis Chapter 8: The Unit of LifeThis Chapter of Biology 11 NCERT PDF starts with explaining that the cell is the fundamental unit of life. All living organisms are made of cells- they could be single-celled or multiple-celled. After defining cells,
this topic also concludes cell theory. This theory suggests that all living beings comprise cell and the difference between plant cells are created from prevailing cells. Moreover, it also encapsulates various types of cells with Examples like red blood cells, white blood
cells, columnar epithelial cells, nerve cells, mesophyll cells, etc. Lastly, this Chapter closes with two major types of cells - prokaryotic and eukaryotic 
between the two layers is called the peri mitochondrial space. The proteinaceous matrix is found in the cavity of the mitochondria. On the surface of Christie small particles are found called F1 particles or exosomes. It is said that exosomes in the process of oxidative phosphatization (respiratory) participate in ATP formation. Electrons at Christie's of
MitochondriaTransduction takes place resulting in the formation of ATP. In its matrix, D.N.A, Ribosomes, Water, Salts, wicks related to the Krebs cycle etc. are found. Chemical Composition: 65-70% protein, 25% lipid, D.N.A., R.N.A. See you, etc. All cytochromes related to the respiratory system chain in the inner phase; Like- Cyt b, c, a, a 3, quinone
NAD, FAD, FMN etc. Function of Mitochondria and the electron transport mechanism of the matrix of th
 surrounded by a double membrane. These are found only in eukaryotic plant cells. These are not found in fungi. It was discovered by Heikel (1865) and Schimper named it plastid. Leucoplasts are of three types; Chromoplast and Chloroplast.1. Leucoplasts are of three types are
amyloplasts (boll accumulating fat) and proteinoplast (accumulating fat) and proteinoplast (accumulating fat) and proteinoplast are found in brown algae, rhodoplasts in red algae and chromatophores in photosynthetic bacteria. 3. Chloroplast: These are colored fungi.
chloroplast or chloroplast was discovered by Schimper (Schimper, 1864). These are found in the green parts of the plant, usually in the leaves (mesophyll, columnar tissue, chlorophyll). These are found in the green parts of the plant, usually in the leaves (mesophyll, columnar tissue, chlorophyll).
plants, they are round, elliptical, flat, elliptical, flat, elliptical. Generally, their length is 2-5p and width is 3-4p. Their number in the cell can be up to 20-40. Chapter 9: Biomolecules All living organisms in this biosphere are composed of different chemicals that are known as compounds and elements. The ninth Chapter of NCERT 11 Biology book PDF explains the
process of analyzing chemical compositions in living organisms. Biomolecules help to identify these compounds by synthesizing, and these are called metabolites. Moving forward, students get to know about various biomolecules, proteins, polysaccharides, nucleic acids, etc. A
detailed idea about protein structure, characters of bonds that link monomers in polymers, metabolism concept, etc. can also be derived from this topic. The importance of metabolism, various enzymes, and their functions are also available here. Chapter 10: Cell Cycle and Cell DivisionThis is the last Chapter of this unit, where students learn about
every aspect of the cell. This topic of NCERT books PDF Class 11 Biology speaks about a biological phenomenon that every living being starts with a single cell, and gradually grow to be a multicellular organism. It describes how this process works and what is a cell cycle. Students can also study different phases of the cell cycle like interphase, M
phase, G1, S, and G2 phase, prophase, metaphase, anaphase, etc. In the other part of this Chapter, students can prepare cell divisions and their significance, working process. Unit 4: Plant Physiology This is the start of unit four, which includes five Chapters. This unit is all
 about plant physiology and its various aspects. Chapter 11: Transport in PlantsThis eleventh Chapter of the 11th NCERT Biology book PDF starts with how water and other substance reach the topmost part of a tree or how they transport various elements between cells. The transport system that plants use is demonstrated here. Moreover, the relation
between plants and water and their importance can be learned from Chapter eleven. Also, students can know about long-distance water transport, and other nutrients and minerals are elaborated here. Another process called transpiration is explained here with an Example. Lastly, how trees use their phloem cell to perform their transport system from
the source, can be understood easily by students. Chapter 12: Mineral NutrientsIn this Chapter of NCERT 11th Biology book PDF, students can learn about various methods to study what all minerals plants need for their growth and living. With this study, they come to know about all the essential minerals that plants require. Moreover, this Chapter
also explains the mechanism by which plants absorb these essential elements. This topic also helps students to understand the translocation process of solutes and the metabolism system of nitrogen. Furthermore, it also explains how soil works as the reservoir of these essential elements that plants absorb and transport to their different body parts
and perform their physiological activities. Chapter 13: Photosynthesis in Higher Plants 11 know that photosynthesis is a biological process that helps plants to produce their food for a living. However, this Chapter of Class 11 NCERT Biology PDF provides knowledge about it in more detail. Students can acquire
 information about the early experiments on photosynthesis, the place where it take place, the number of pigments involved in this process. Furthermore, information on light reaction, electron transport, usages of ATP and NADPH, the C4 pathway are also elaborately discussed in this Chapter. In conclusion, students can also know about the factors
that can affect this process. Chapter 14: Respiration in Plants This fourteenth Chapter of NCERT PDF Class 11 Biology encapsulates another important physical activity of plants breathe to live. Also, this Chapter
explains how glycolysis and fermentation are related to respiration, and what is their importance. While moving with this topic, students can get to know about aerobic respiration, a quotient of this process, an amphibolic pathway. So, after finishing this Chapter, students must have a clear concept of the respiratory
system of plants. Chapter 15: Plant Growth and DevelopmentGrowth is one of the most common processes that can be found in all living beings. This Chapter of the new NCERT Biology Class 11 PDF shows how metabolism affects growth, and also it explains various aspects of growth. These aspects include measurements of growth, its phases, rate,
and condition of growth. Dedifferentiation, redifferentiation, and differentiation, and differentiation about all
the regulators of growth, photoperiodism, and vernalization of plants. Internal Causes of Dormancy: These Are Mainly the Following 1. Impermeable to water, so the seeds cannot absorb water and germinate even when in contact with water. Such seeds remain in the ground for a
long time. Under natural conditions, the seed coat gradually weakens and becomes permeable as a result of the scarification of soil particles and the action of bacteria and fungi, only after that do the seeds germinate by absorbing water. Impermeability of the scarification of soil particles and the action of bacteria and fungi, only after that do the seeds germinate by absorbing water.
seed coat to oxygen, the factors or substances that make the seed coat impermeable to water are Gradually making it impervious to oxygen as well. Xanthium, many types of grass and similar dormancy in the seeds of some plants of the Compositae family (dormancy) is found. 3. Mechanically Resistant Seed Coat: In the seeds of some plants, water and
oxygen are absorbed by the seed coat, but the seed coat is so hard that the embryo does not develop fully, and Its development is limited to the seed coat by imbibition pressure; But it is not able to
break it and germination stops. Some other Examples of this type of dormancy are black mustard (Brassica nigra), Lepidium, Amaranthus retroflexus (Amaranthus retroflexus), etc.4. Imperfectly Developed Embryo: In this type of dormancy, the embryonic development inside the seed is not even complete that they are separated from the mother
plant. Such seeds contain all the gradations of embryonic development from the fertilized egg to the fully development occurs slowly in autumn or winter and is completed in spring just before germination, such as Erythronium, Ranunculus and Ilex, etc.5. Embryo Requirement after Ripening in Dry
 Storage: In some mature seeds, the embryo is fully developed, but it becomes necessary to keep them in a dry environment for some time before germination, failing which they do not germination. In Crataegus seeds, this after-ripening process is
completed in one to three months. In this process, as the later ripening progresses, the acidity of the embryo increases water absorption and accelerates germination. Presence of Germinating Inhibitory or inhibitory or inhibitory substances, such as abscisic acid, coumarin, ferulic acid, and short-chain in the tissues of embryo,
endosperm, seed, fruit, etc. of many plants. There are fatty acids, etc. Unit 5: Human Physiology This is the last unit of NCERT books for Class 11 Biology that encapsulates human physiology. This unit consists of seven Chapters. Chapter 16: Digestion and Absorption Food suggests a fundamental requirement for all living beings. Living organisms
require carbohydrates, fats, protein, minerals, and vitamins for their growth, development, and survival. Through the digestive system that comprises the alimentary canal, digestive glands, and digestion process of foods.
Afterward, it highlights the process of absorption of digested foods. Moreover, this Chapter also speaks about all the common disorders like jaundice, constipation, diarrhea, etc. that are seen in humans. Chapter 17: Breathing and Exchange of Gases Biology students can learn about the various respiratory organs like lungs and breathing mechanisms
in this Chapter of the 11th NCERT Biology book. This topic provides information about how the human body exchange gases, transport gases, and regulate this respiratory system like asthma, emphysema, occupational respiratory diseases. Chapter 18: Body Fluid and
CirculationThe human body transports all the required elements by a fluid called blood. In this Chapter of Biology Class 11 NCERT PDF book, students can learn about the substances of blood like plasma, fluid matrix, and formed elements. It also gives information about different blood groups. Another fluid in the form of tissue, lymph, is also
described here. Moreover, students can also gather knowledge about the circulation pathway, the circulatory system of humans, and the cardiac cycle. Also, this Chapter answers various questions about double circulatory Products
and Their EliminationIn the Biology textbook for Class XI, Chapter nineteenth explains the human excretory system. The procedure of urine formation, different functions of tubules, concentration mechanism of filtrate are also discussed in this topic. Students can learn about kidney function and its regulations, importance of other organs in excretion
Moreover, they can also know about excretory disorders like uremia, renal failure, renal calculi, glomerulonephritis. Chapter of NCERT Biology Class 11 PDF explains various types of movements found in humans. The number of muscles like
skeletal, visceral, etc. that are related to movements is also discussed here. Students can find detailed information about the skeletal disorders like myasthenia, tetany, arthritis, osteoporosis, gout, etc. are also briefed
in this Chapter. Chapter 21: Neural Control and Coordinate with each other to perform various body functions, and a neural system helps the body coordinate. In this Chapter of NCERT books for Class 11 Biology, students can acquire knowledge about the human neural system and its functional and structural units. This
Chapter also encapsulates the central neural system of the human body and how this system controls most of the functions. Students can also learn about reflex arc and action and transmitting process. Chapter 22: Chemical Coordination and IntegrationThis is the last Chapter of NCERT Biology Class 11 PDF, and here Biology
students learn about different endocrine glands and hormones. Hormones work as intercellular transmitters that have no nutrient value. The human endocrine system shows its secretions, hormones of the gastrointestinal tract, heart, and kidney. Lastly, the
book closes with a mechanism behind the actions of these hormones. Why NCERT Books Are Popular Among Both Students and Teachers? NCERT books for Various
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