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## CAUSES

- **Type 1**

Type 1 diabetes mellitus is characterized by loss of the insulin-producing beta cells of the pancreatic islets, leading to insulin deficiency. This type can be further classified as immune-mediated or idiopathic. The majority of type 1 diabetes is of the immune-mediated nature, in which a T cell-mediated autoimmune attack leads to the loss of beta cells and thus insulin. It causes approximately 10% of diabetes mellitus cases in North America and Europe. Most affected people are otherwise healthy and of a healthy weight when onset occurs. Sensitivity and responsiveness to insulin are usually normal, especially in the early stages. Type 1 diabetes can affect children or adults, but was traditionally termed "juvenile diabetes" because a majority of these diabetes cases were in children.

- **Type 2**

Type 2 DM is primarily due to lifestyle factors and genetics. A number of lifestyle factors are known to be important to the development of type 2 DM, including obesity (defined by a body mass index of greater than 30), lack of physical activity, poor diet, stress, and urbanization. Excess body fat is associated with 30% of cases in those of Chinese and Japanese descent, 60–80% of cases in those of European and African descent, and 100% of Pima Indians and Pacific Islanders. Even those who are not obese often have a high waist-hip ratio.

- **Gestational diabetes**

Gestational diabetes mellitus (GDM) resembles type 2 DM in several respects, involving a combination of relatively inadequate insulin secretion and responsiveness. It occurs in about 2–10% of all pregnancies and may improve or disappear after delivery.

No.	Name of the Experiment	Page No.	Date of Experiment	Date of Submission	Remarks
1)	To study and identify the stages of gamete development i.e. TS of testis	01	12-4-18		
2)	To study and identify the stages of gamete development i.e. LS of ovary through permanent slide	03	4-5-18		
3)	study of entamoeba histolytica, plasmodium vivax and ascaris lumbricoides	05	16-7-18		
4)	To study TS of blastula through permanent slide	10	17-8-18		
5)	study of plants and animals found in xerophytic conditions	12	18-9-18		
6)	To test the presence of inorganic salts in different soil samples	14	28-9-18		



## Conclusion

Here we come to and end of the project on 'Medicinal Plant', stages of maturation of our and stages and development of cockroach and housefly. I hope that I have been successful in bringing out the important uses of plant include in the project. I thank all the people who have helped in completing the project.

I hope you will noted benefit from this project. I ask you to forgive any mistakes it committed.

Poashant Kumar

Biology project file for class 12. Biology project file cover. Biology project file front page. Biology project file decoration. Biology project file front page design. Biology project file cover page. Biology project file class 9. Biology project file class 10.

The subject that studies life and processes associated with it. Covering both the study of animals in Zoology and of the plants in Botany, the subject forms the foundation for MBBS and BSc courses. Like theory, the project work plays a significant role in Senior Secondary Education and that reflects on your report card. If you are looking for an innovative idea for Biology project for class 11, then you must know that the subject offers great scope for experiments that you can base your project on. Here are a few biology class 11 projects explained in detail: Components of Food Aim: This project is about the various components of Food. Food is a nutritional material taken for growth work, restoration and preservation of life cycles by an organism. For living creatures, food is a kind of power. We have to feed to provide us with energy known as staple foods. Nutrition is the analysis of food material compositions and the amounts of food materials needed by our body for growth, maintenance and survival. Theory: Some diets have more sugars, and others may have more fat. Many foods contain all the main nutrients but in different proportions, such as sugars, fats, proteins. So we will ensure that our body receives all the necessary nutrients in sufficient amounts by consuming a range of various foods. Carbohydrates Protein Fat Vitamins Minerals Dietary Fiber Requirements: The above requirements are needed in edible forms to classify the components of food. Pollution Aim: The aim of this project is about Pollution, of different forms, which has a major impact on the environment and culture. About 4.2 million deaths per year are a product of external air pollution, according to the Health Organization. In countries where air quality crosses WHO guideline thresholds, ninety-one percent of the world's population now lives. Theory: Pollution need not necessarily be caused by organic compounds such as particulates (like smoke and dust) (like smoke and dust). Forms of energy such as vibration, heat or light may also cause emissions. These pollution-causing compounds are considered contaminants. Pollution affects the ecosystem equilibrium, even in minuscule numbers. Pollutants will work their way up the food chain to find their way into the human body finally. To discover the forms of emissions and their effects, read on. Non-Conventional Sources of Energy Aim: This project is about the Non-Conventional Sources of Energy. Energy is one of the main parts of the economic infrastructure, being the fundamental input required to support economic development. A close association exists between economic growth and the use of oil. Renewable electricity sources are also considered non-conventional energy sources. Renewable supplies that are refilled continually by natural cycles. Examples of alternative energy sources include for example, solar energy, wind energy, bio-energy-biofuels generated sustainably, hydroelectric generators, etc. A method of renewable energy transforms power from sunshine, wind, tidal currents, sea waves, convective energy, or biomass into a form that can be used, such as heat and electricity. Theory: The more industrialized a nation is the larger the per capita intake of electricity, and conversely. Human culture depends on numerous energy sources. It is possible to categories the two main energy sources under: Conventional Sources Non-Conventional Sources Human Genome Project Aim: The Human Genome Project was a government financed 13-year initiative begun in 1990 with the goal of identifying within fifteen years the DNA sequence of the whole heterochromatic genetic code. The Human Genome Project was treated with skepticism by many individuals in its initial periods, particularly researchers and theistic evolutionists alike. Theory: The Human Genome Project is divided into two to discuss the universal genome sequence on the basis of the information obtained from yeast and worm studies (HGSC, 2001). The first step, called the shotgun process, differentiated human chromosomes into sufficiently sized DNA segments, which were then subsequently subdivided into compiled smaller, alternating DNA fragments. Malnutrition Aim: This project is about Malnutrition. Every living organism needs food for its sustenance on earth, which is very important for carrying out its mentally and physically related activities, development and growth. Man needs such nutritional requirements such as sugars, proteins, carbohydrates, vitamins, nutrients, starch, and water in the proper proportion and adequate quantity for natural progress and expansion that he gets from the food he consumes. A healthy diet is considered a meal that contains all these important nutrients in the right proportions. Theory: The loss or even imbalance of any of these in the diet of individual results in eating disorders, which can be collectively considered malnutritional disorders. Malnutrition is the disease in which persons become poor and ill due to inadequate and unbalanced nutrition. Due to hunger, lack of schooling, misinformation and regular pregnancies, a substantial number of individuals in our nation and other developing nations suffer from malnutrition. Sickle Cell Anemia and its Prevention Aim: This project is regarding Sickle Cell Anemia and its Prevention. The most frequent cause of sickle cell disease is sickle cell anaemia (SCD). SCD is a severe condition in which the body creates red blood cells that are sickle-shaped. "Sickle-shaped" means that like a crescent, the red blood cells are shaped. Theory: There are disc-shaped regular red blood cells and they look like doughnuts without holes in the middle. They pass through the blood vessels with ease. An iron-rich protein called haemoglobin is present in red blood cells. There are stiff and sticky sickle cells. The blood vessels in the brain and other organs appear to block blood flow. Pressure and organ injury can be caused by the blocked blood supply. It may also increase the risk of infection as well. India's Monsoon Aim: This is the Monsoon of India Project Study - Our nation is a land of great weather diversity. Seasonal fluctuations as well as variations in both day and night are broad. In weather, these changes are found. A word derived from the Arabic word 'mousam,' which implies season, for monsoon use. Theory: The four months of June, July, August, and September are at the centre of the rainy season in almost all of India. This is the wet season. But it continues to decline from south to north and from east to west. It is hardly two months in the remote northwest. During his time, between three-fourths and nine-tenths of the total rainfall is concentrated. This may give one an understanding of how it is spread unevenly over the year. By early June they are high enough to draw the trade winds of the southern Hemisphere, the low pressure levels over the north - western plains are further exacerbated. They cross the arctic circle from the Indian Ocean and reach the Bay of Bengal and the Arabian Sea, only to be caught up in the air circulation over India. These south-east trade winds are of oceanic origin. Manures and Chemical Fertilizers Aim: By applying manures and fertilisers to the soil of crop fields, the lack of plant nutrients and organic matter in the soil is compensated for. The primary sources of plant nutrients are both manure and fertiliser, so they are used in crop growing. Theory: In addition to water CO2 and sunlight plants, no elements were required for their growth. These are classified as nutrient elements. From the salt of these elements found in the soil, plants receive their elements. But soil in these elements becomes low after prolonged cultivation of plants. The material applied to the soil to cover up the shortage of the vital components was called fertilisers by increasing soil fertility. Manures are fertilisers that are natural. They are bulky sources of organic matter that provide small amounts of nutrients but huge amounts of organic matter. Manures include farmhouse compost (FYM), manure, biofertilizers, agricultural residues, etc. Importance of Trees Aim: Trees are an integral part of the Earth's biosphere. In the life of man, they play an important role. Children play under them and in their cool shade, weary travellers refresh themselves. They're bringing us fruit to eat and burning firewood. In order to build houses and furniture, we need trees. It was a tree in a woodland on the slope of a hill. Perhaps the furniture in your classroom is made from trees that once flourished in the Assam or Kerala forests. Trees thus supply us with all of life's conveniences. Theory: Trees do a lot more than offer us the conveniences that we have described. They continue to sustain the survival of man by providing the world with oxygen that is important to live. When animals breathe and objects combust, carbon dioxide is the fuel the plants consume. The oxygen in the air is continually taken up and converted into carbon dioxide. The leaves of plants (in fact, of all green plants) absorb this carbon dioxide and decompose into carbon and oxygen with the aid of sunlight. The carbon is used to make starch 70, and the oxygen is released into the air, eliminating the animals with the chemicals used. But this would soon mean the animals would die for lack of oxygen. GreenHouse Effect Aim: The atmosphere on Earth has changed several times in the past. From the south, tropical forests have expanded into more temperate regions (or milder, colder climates). Millions of years later, polar caps extended from the north, surrounding great glaciers in most of the northern United States, Europe and Asia. Almost all scientists today consider that human activities are altering the world. Theory: The air inside of a greenhouse remains warm under bright sunlight. The greenhouse glass makes light energy and some of its heat energy into the sun. Within the greenhouse, this heat builds up. You were only showing a slight greenhouse effect. What will occur if the Earth's atmosphere shifted by this greenhouse effect? What occurs inside a car parked in the sun is another type of a greenhouse. The light and heat of the sun gets inside the vehicle and like the plastic bag surrounding the jar, is stuck inside. Within a vehicle, the temperature can reach over 120 degrees Fahrenheit (49 degrees Celsius). Requirements: Two identical glass jars, 4 cups cold water, 10 ice cubes, One clear plastic bag and a Thermometer. Class 11 Biology has a wide range of topics which can easily be used for project work. You can pick any topic as per your interest and work upon it. Given below is a list of 50 useful biology project ideas: Components of Food Pollution Non-Conventional Sources of Energy Human Genome Project Malnutrition Sickle Cell Anemia and its Prevention India's Monsoon Manures and Chemical Fertilizers Importance of Trees Green House Effect To Study of Drug Resistance In Bacteria Using Antibiotics Blood Circulation How Does Light Affect Yeast Study on Probiotics and their Preparation Mitosis in Onion Root Tip Cells Cellulitis DNA Fingerprinting Alzheimer's And Dementia Microbes in Human Welfare Study On Gene Therapy Effect of Antibiotics on Microorganisms Effects of Fertilisers on the Rate of Elongation of the Hypocotyl Spermatogenesis Study on Enzymes Drug Addiction Possible Effects of Maternal Behaviour on Foetal Development Pollination Detailed Study on Infertility Its Causes and Treatment Eye Diseases Growing Yeast: Sugar Fermentation Effects of Diet on Blood Glucose Effect of Pupil Dilation on Peripheral Vision Ethyl Alcohol vs. E. coli Bacteria Affected by Ultra-Violet Light Vitamins or Sources of Vitamins Effects of Diet on Blood Glucose Sources of Energy Transpiration of Plants Phylum Porifera Biomagnification or Bioconcentration Organic Farming or Organic Agriculture AIDS Study of Bacterial Growth in Acidic Environments Useful Plants and Animals Petroleum Diabetes and Exercise Human Glands Role of Recombinant DNA Technology in Modern Medicine Types of Soil Malaria Biology is a vast subject and has a vast range of concepts when it comes to making projects. Almost all branches of Biology are equipped with learning and experiment. Discussed below are some of the popular Biology project for class 11th with required materials. Vermicomposting Vermicomposting is a biological process of making use of biodegradable waste to make manure which is seen as a sustainable alternative to chemical fertilizers. The process involves earthworms and microbes that decompose plant waste into manure when conducted under the suitable environment. It can be easy and interesting Biology project for class 11th. There are two methods of vermicomposting—Bed Method and Pit Method. Bed method is more advanced and is widely used while the pit method is lesser used due to poor aeration and waterlogging. As such, there are no specific materials that you need, a large bin or a tank is required to store the waste and earthworms are to be put in. The temperature is to be maintained for which the tank can be covered with polythene or dry grass. Blood Groups Blood is connective tissue and is crucial in the transportation of oxygen to the cells. As per the ABO blood grouping system invented by Karl Landsteiner, there are four types of blood groups which include A, B, AB and O. All these blood groups are determined by their antigens and antibodies. It is important that the blood group of both the donor and receiver should match during the transfusion to avoid a life-threatening situation. The aim of the project would be to understand the basics of blood grouping system. This can be a very exciting Biology project for Class 11 as it requires a good amount of lab work and handling lab equipment. Materials Required: Toothpicks; Blood Lancet; Alcohol Swabs; Biohazard Disposal Container; Blood Sample; Clean Glass Slide; Sterile Cotton Balls. Want to get admission to your dream university abroad? Then, Register Here! FAQs Is Biology class 11 hard? Class 11 is much advanced and complex in comparison with class 10th. And so is the syllabus for class 11 Biology. However, if you aim to make a career in Medical Science or Paramedics, then you would rather find Class 11 Biology interesting. What are the project topics in Biology? One can choose any topic that fits well in class 11 Biology. Some of the popular ones are as follows: - To Study of Drug Resistance In Bacteria Using Antibiotics- Mitosis in Onion Root Tip Cells. Cellulitis- To Study the Coagulable And Non-Coagulable Milk Proteins

Matrix Biology was established in 1980 as Collagen and Related Research, an international scientific journal for publication of research on the extracellular matrix. The journal became Matrix (1989-1993) and then Matrix Biology in 1994 to reflect the expansion of knowledge and interest in the diversity of extracellular matrix-associated molecules and the increasing awareness of the ... Biology is the scientific study of life. It is a natural science with a broad scope but has several unifying themes that tie it together as a single, coherent field. For instance, all organisms are made up of cells that process hereditary information encoded in genes, which can be transmitted to future generations. Another major theme is evolution, which explains the unity and diversity ... Mathematical biology is the use of mathematical models of living organisms to examine the systems that govern structure, development, and behavior in biological systems. This entails a more theoretical approach to problems, rather than its more empirically-minded counterpart of experimental biology. Mathematical biology draws on discrete mathematics, topology (also ...

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