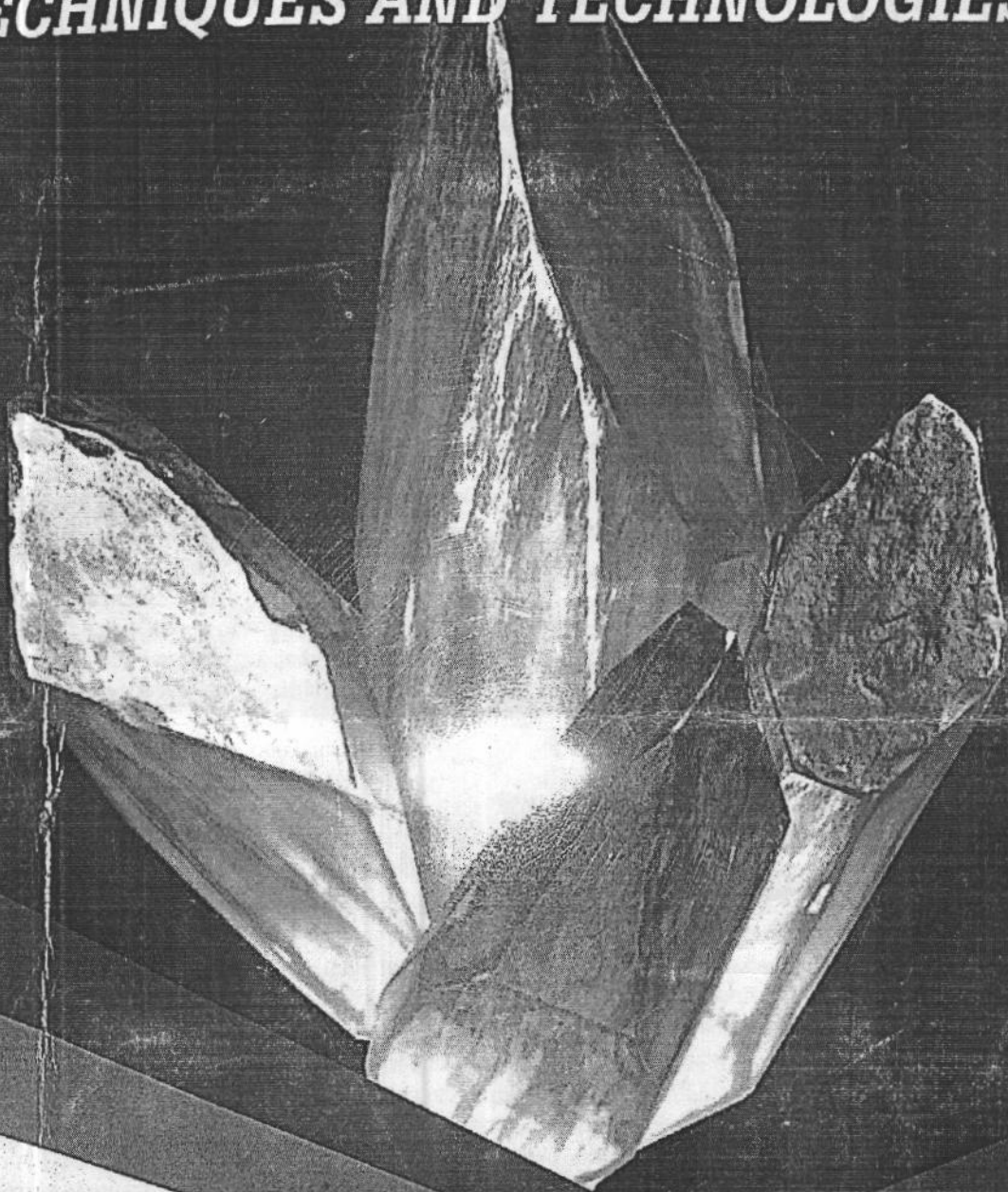


**"BULK *CRYSTAL* GROWTH:
TECHNIQUES AND TECHNOLOGIES"**



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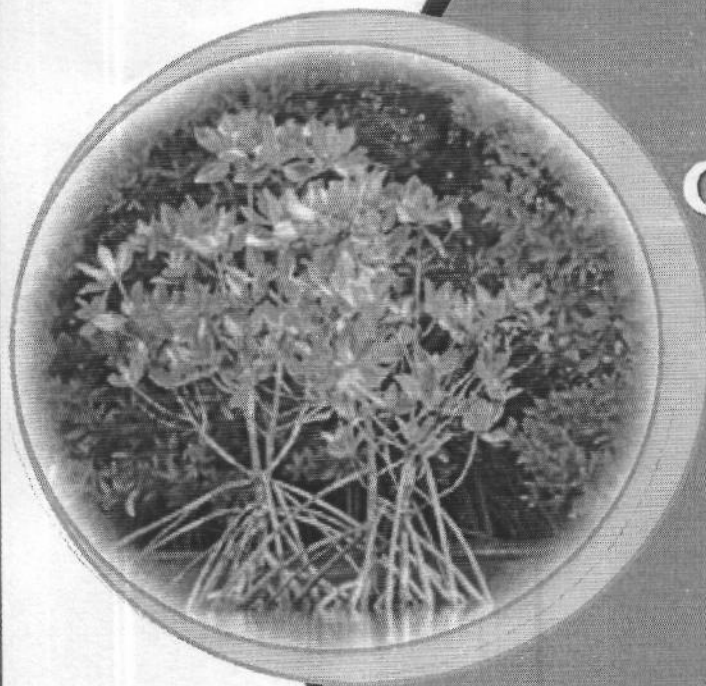
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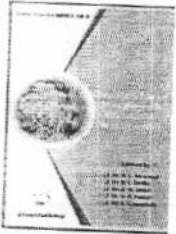
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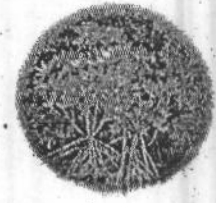
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Title

Positive Effect Of Climate Change On Animals During COVID-19 Lockdown

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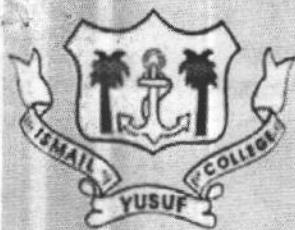
Abstract

Nowadays we face a very big problem of corona virus COVID-19 pandemic. It is very highly infectious and spreading from one person to another person. The corona virus patient increases day by day and mortality rate also highly increases in some countries. So in all over the world declared lockdown for safety purposes. Due to lockdown all the industrial, economical, educational, entertaining, transport services totally stop. Daily gathering of people, vehicles, transportation, import export stop. The lockdown decreases the pollution rate due to stop transportation. The fresh air, clear water found everywhere which effect on wild animals, birds, fishes freely move here and there, no restrictions in their life, no fear of humans, they also entered in urban areas. Rivers are fresh, positive impact on animals. So on the above observation COVID-19 teaches us take care of animals, give them a space in specific environment, keep a clean climate.

Poster

Positive Effect Of Climate Change On Animals During COVID-19 Lockdown .
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ABSTRACT
 Nowadays we face a very big problem of corona virus COVID-19 pandemic. It is very highly infectious and spreading from one person to another person. The corona virus patient increases day by day and mortality rate also highly increases in some countries. So in all over the world declared lockdown for safety purposes. Due to lockdown all the industrial, economical, educational, entertaining, transport services totally stop. Daily gathering of people, vehicles, transportation, import export stop. The lockdown decreases the pollution rate due to stop transportation. The fresh air, clear water found everywhere which effect on wild animals, birds, fishes freely move here and there, no restrictions in their life, no fear of humans, they also entered in urban areas. Rivers are fresh, positive impact on animals. So on the above observation COVID-19 teaches us take care of animals, give them a space in specific environment, keep a clean climate.
 Key words: Corona virus COVID-19, Lockdown.



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Seed coat study of some species of family Fabaceae

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ABSTRACT

For seed morphological investigation scanning electron microscopy is important for seed study. Seed is a complex structure. The seed surface study shows various parameters like size, shape, colour, weight, symmetry, surface, medicinal value etc .For scanning electron microscopy study 4 species of family Fabaceae/Leguminosae were well studied. The species like *Albizia lebbeck* (Linn.) Willd., *Phaseolus vulgaris* L., *Prosopis spicigera*, *Crotalaria Juncea* L. were studied. The spermoderm shows specific pattern. The SEM study shows mostly smooth, plain surface with granulated deposition. Some seeds shows cellular globular mounded ridges. So variations found in seed surface. It help in seed identification processes. Various chemical constituents present in seed coat which gives high medicinal value. It is important for preparation of various drugs. The study is important for micromorphological variations of seed coat, taxonomic study, identification and also for therapeutic efficacy.

Keywords: Seed morphology, Scanning electron microscopy (SEM), Fabaceae

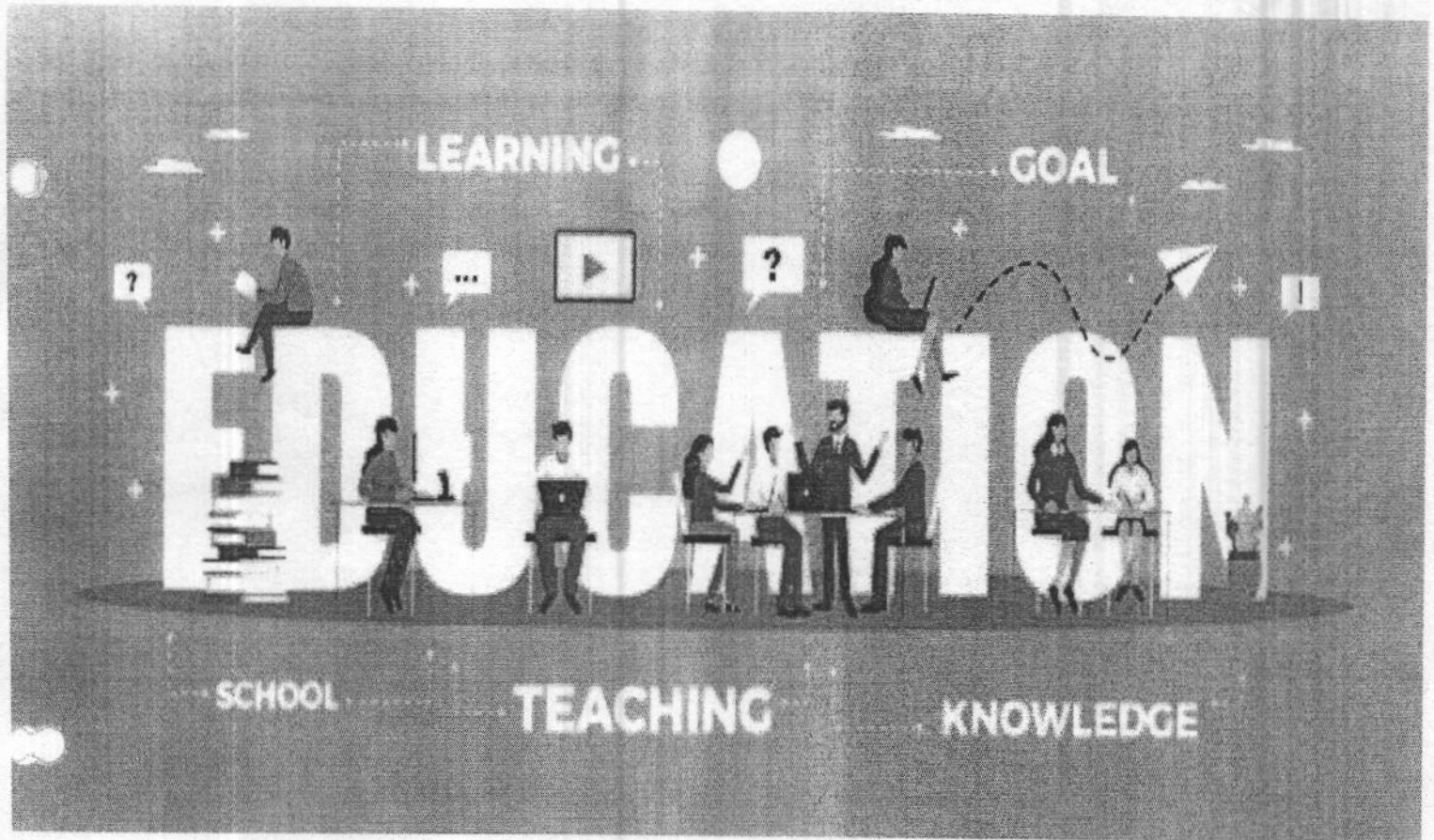
Introduction

The Fabaceae or Leguminosae commonly known as legume, pea or bean family are a large and economically important family of flowering plants. The family shows trees ,shrubs and perennial or annual herbaceous plants. The plant is easily recognized due to legume fruit, compound stipulate leaves. Family shows characteristic flowers and fruits in many legumes. (<https://en.wikipedia.org/wiki/Fabaceae>). *Fabaceae* is the third largest family of flowering plants. It shows more than 18,000 described species. It is present in all over the world especially the tropical rain forest. Seed is a complex structure.

The seed shows cells from three generations, a parent sporophyte a female gametophyte and the embryo of the next sporophyte generation.

Fertilized female gamete called a seed. Seed is a fertilized or mature ovule. (Green, et al. 1984). For the identification of seed there are various parameters which are helpful in distinguishing the taxa at suprageneric level. These parameters include morphology, anatomy, information of various types of seeds life size, shape, colour, surface, symmetry, medicinal value of seeds, value of seed in trade and marketing systems. The surface study is essential for observing the different structural, ornamentations of seeds . Various seeds show different type of seed coat structure which are helpful for solving the taxonomic problems. Seed surface sculpturing is useful traits for species identification. There are innumerable variation in the seed size, shape, colour and surface. The surface smooth, wrinkled, striate, ribbed, furrowed, reticulate, tuberculate, alveolate, hairy, pulpy or having pattern like finger prints. (Bhojwani and Bhatnagar,2000).

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COVID-19 Effects & Challenges to World

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ABSTRACT: At present situation the world faces a big problem of COVID-19 Pandemic. This situation totally collapsed the sustainable development goals of the world. Corona virus infection not showing any sympathy to the people. The rate of infection is increases day by day. The nature and symptoms of corona virus is changed time to time. The cured people in China also show symptoms of this infection. The world economy totally collapsed in this situation. The super power, developed and under developed countries are slow down. Manufacturing, selling of goods stops. GDP of each and every countries going down and it's a big challenge to get it back on track. Governments also take necessary steps to face these challenges. It's a big challenge now to face such a crisis but it's our responsibility to remove negative impact of pandemic shows positivity, humanity for all.

KEYWORDS: Corona virus COVID-19 pandemic, effects, challenges, World

INTRODUCTION: As we know now a days we face a very big problem of coronavirus COVID-19 pandemic. The COVID-19 pandemic spreads from Wuhan in China. It is highly infectious spread from human to human easily. It spreads not only in Wuhan but all over the world. Mortality rate is increases in some countries like America, Italy, Russia etc. So Government declared lockdown in this situation. The lockdown situation affects all the activity of the world. All the industrial sector, tourism, travelling, factories, communication systems educational sectors stops, businesses, hotels, bars, shopping malls closed and only very essential sector are continue. In this situation it's major effects found on world environment. The world economy collapsed and all worlds going to slow down.

COVID-19 pandemic: Corona virus are a group of related viruses that cause diseases in mammals, birds and animals also. Corona outbreak came to light on December 31, 2019 when China

informed the World Health Organization of a cluster of cases of pneumonia of an unknown cause in Wuhan city in Hubei Province. Virus has been named SARS-CoV-2 and the disease is now called COVID-19. WHO declared it as a Pandemic. It is not an epidemic or endemic it is pandemic i.e, disease which spreads to a large area affecting populations of many countries. The symptoms of these pandemic is very common but after infection their care is most important. For the precautionary measure World Health Organization (WHO) given a guidelines for the safety purposes. Use mask, social distancing, Stay at home, avoid gathering, avoid spitting at any ware, safety and security these and others are some precautionary measures followed by the people.

Lockdown effect: The International Monetary Fund estimates that our world has entered into a recession and while the full economic impact of the crisis is difficult to predict, preliminary estimates place it at US\$2 trillion. Due to