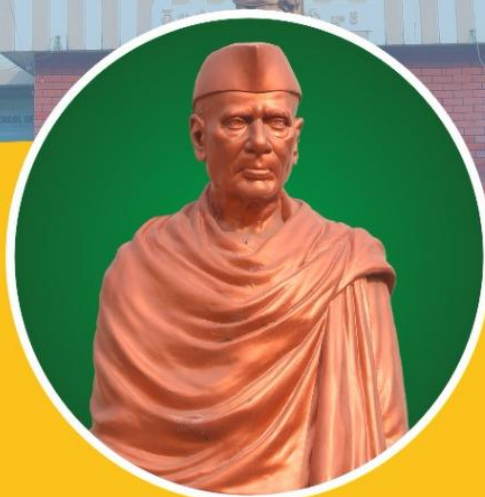




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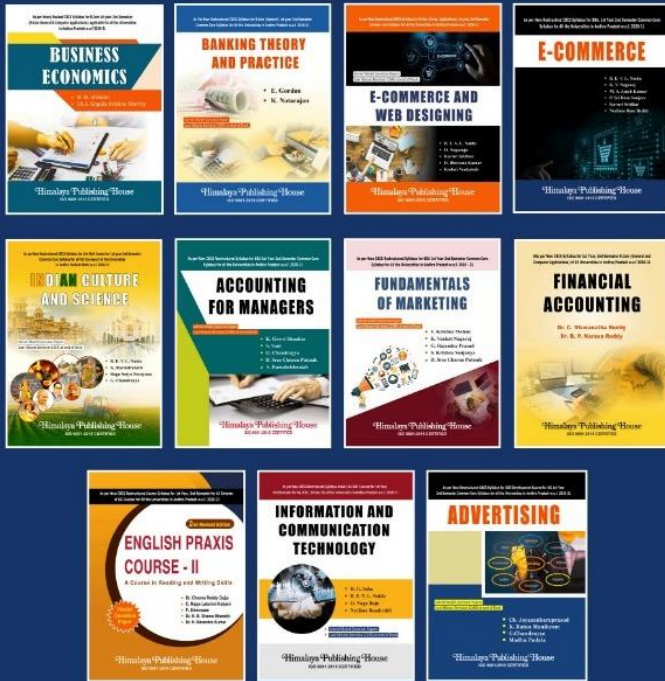
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DNA Playfair Cryptosystem Based on 16×16 Key Matrix Using DNA ASCII Table



P. Bharathi Devi, R. Kiran Kumar, and **P. Ravindra**

Abstract DNA Cryptography contributes significantly in the field of network security. Data is the crucial aspect which has to be secured during transmission. Several traditional cryptographic algorithms are developed with variant cryptographic approaches. Among all of them, DNA Cryptography is prevalent because of its inherent property of storing huge information in small amount of DNA. In the present scenario, everything is done online. All the services, infrastructure or platforms are provided on demand to the clients. In such a situation, there is a need to impart the trust to the client in the storage of a cloud. In the present paper, the authors implemented DNA-based Cryptosystem in a Cloud using DNA ASCII Table and extended the playfair key matrix from 5×5 to 16×16 . The key matrix developed in this paper contains only the DNA Sequences instead of alphabets. The key aspect of this algorithm is the DNA ASCII Table and the Key matrix is randomly generated so that it becomes a challenging task for the intruder to perform bruteforce attack.

1 Introduction

Everything is digitized. The digitized data is traveled through various social networking applications or other internet applications. Most of the people are not interested to buy the products permanently. They are interested in on-demand services and pay on utility services. In this aspect, cloud computing plays a vital role. In

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Emotional Intelligence of People Towards Political Parties in Andhra Pradesh Based on Twitter Data

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Abstract. Social networking facilitated better approach for correspondence innovation for individuals to impart their insights, intrigue, and assumptions. Massive measure of unstructured information is created from online networking like Facebook, twitter, LinkedIn, which is warehouse of helpful bits of knowledge. Analysis can be connected to remove different valuable bits of knowledge frame this. The main aim of this paper is to extricate the information from substantial internet based life information, recognize the general population estimations and conduct to settle on aware choices. Powerful estimation investigation of individuals' feelings is important for complex points like legislative issues, government, present patterns and medicinal services. These goals are accomplished by constant recovery of twitter information what's more, perform conclusion investigation. It orders feelings of the general population are certain, negative, cheerful, tragic or neutral towards National and Regional political parties in India like BJP, Congress TDP, YSRCP and Janasena. Thinking about individuals' feelings, gatherings can distinguish their short-coming and take care of enhancement to satisfy society needs and work towards fulfilling individuals prerequisites. In this paper, utilizing content mining and unsupervised lexical technique grouped tweets identified with these parties to distinguish public perception towards parties.

Keywords: Sentiment analysis · Emotional intelligence · Opinion mining · Twitter · Data mining

1 Introduction

Organizations have as of late entered another period which is portrayed by the assessment of Big Data to reveal yet off the beaten path data. Huge Data concerns shocking informational collections in the scope of Exabyte—exceedingly factor, complex, and developing informational collections from various information sources with challenges of putting away, examining, and imagining for further procedures.

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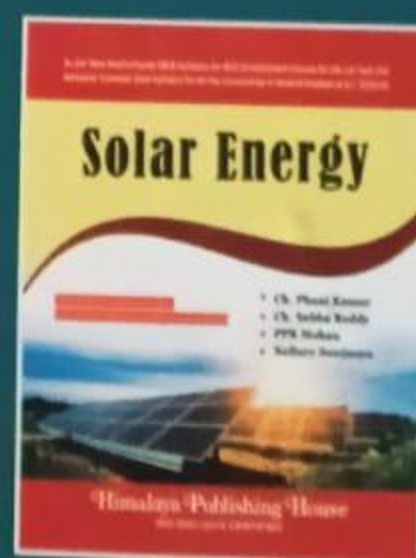
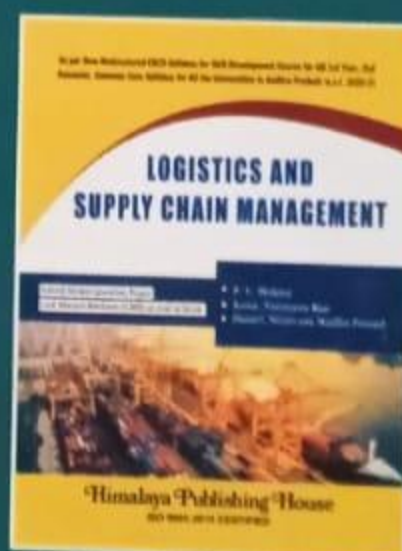
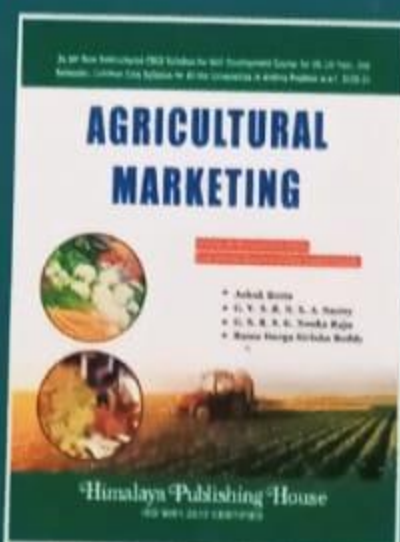
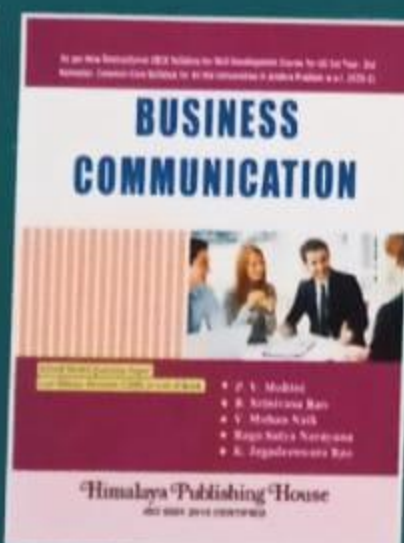
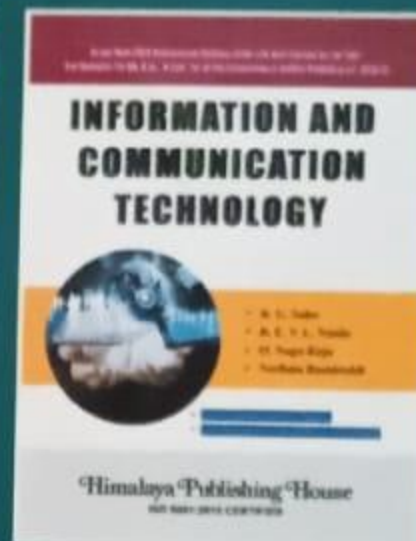
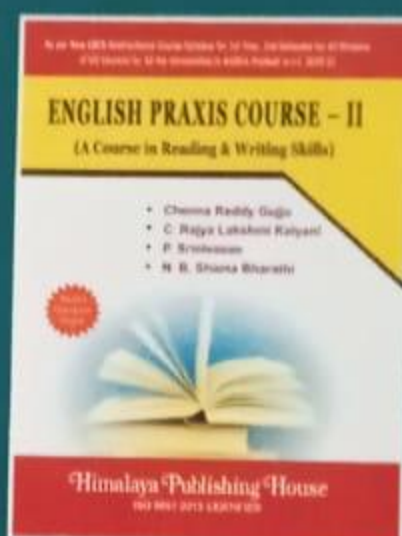
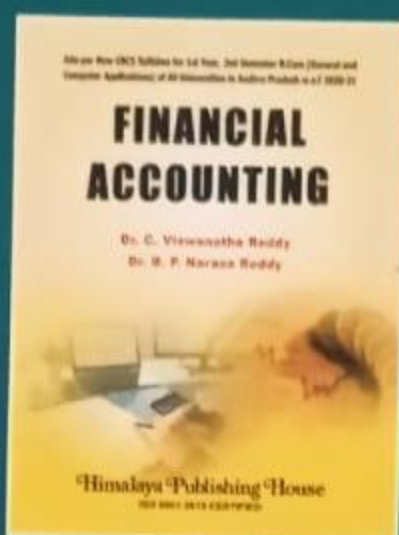
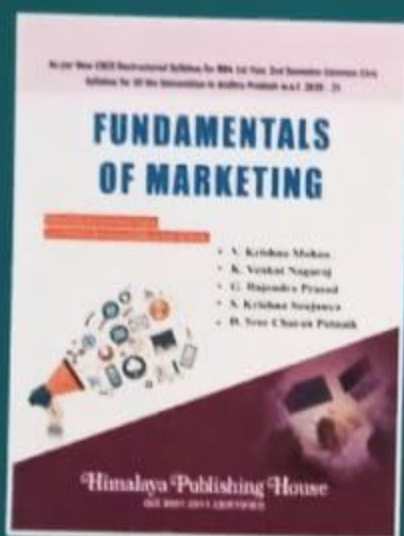
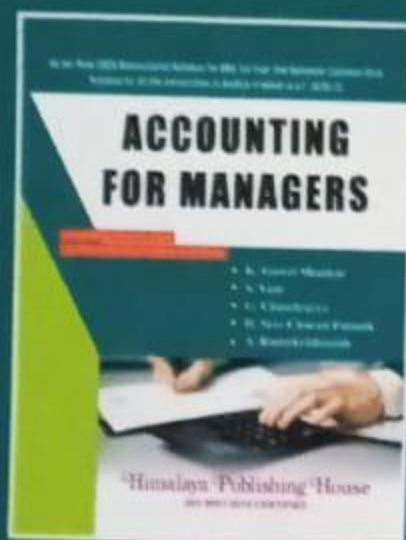
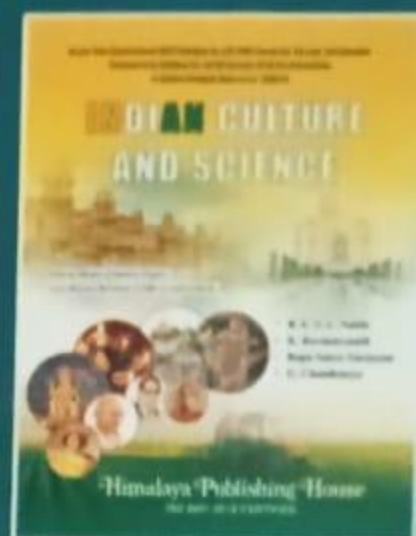
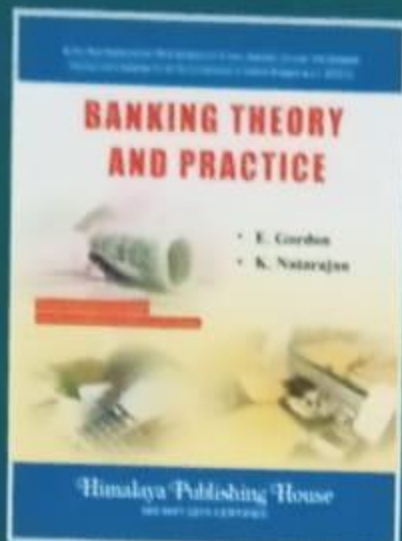
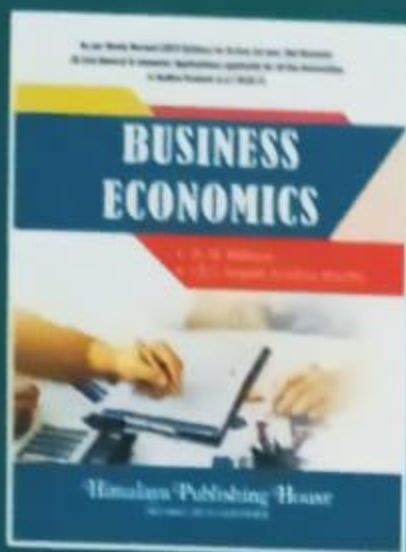
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Orchid Seed Ultrastructure: Ecological and Taxonomic Implications with Reference to Epidendroideae (Orchidaceae)

14

J. Ramudu, S. M. Khasim, and G. Ramesh

Abstract

Ultrastructure of orchid seed belonging to subfamily Epidendroideae (Orchidaceae) has been discussed. Orchid seeds are tiny and microscopic and produced lakhs in a single pod. In *Cynoches ventricosum* it contains four million seeds. Since orchid seeds are non-endospermic, very few seeds germinate successfully and give rise to mature plant. The present paper deals with quantitative data related to the length and width of seed and embryo, percentage of air-space and number of testa cells. It is evident from the present study that *Cymbidium* spp. showed higher values of seed volume/embryo volume compared to the vandoid genera whereby higher percentage of airspace had been recorded in cymbidiums. Hence *Cymbidium* seeds are more buoyant and widely distributed throughout Indo-Malayan region. Based on seed morphometry, *Pholidota* is closely allied to *Coelogyne*. Similarly *Oberonia* and *Malaxis* show close affinity with *Vanda*.

Keywords

Orchid seed · SEM studies · Epidendroideae · Functional adaptations · Taxonomic implications

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For the first time, the occurrence of 21 different rhizobacterial strains from root nodules of *V. trilobata* cultivars was reported in this study. There were no reports of these strains from *V. trilobata* so far. All the twenty one rhizobacterial strains exhibited the ability to produce EPS and IAA. While only 6 strains exhibited the phosphate solubilization capacity, 7 strains showed siderophore production, 8 strains showed HCN production and only 4 strains showed chitinase production. Among the 21 strains two strains namely, *Agrobacterium tumifaciens* MRR 102 and *Rhizobium* sp. MRR 106 exhibited all these 5 plant growth promoting characteristics. By the 16S rRNA sequencing studies 21 strains were identified as species belonging to 7 different genera viz., *Rhizobium*, *Agrobacterium*, *Ensifer*, *Mycobacterium*, *Bacillus*, *Paenibacillus* and *Enterobacter*.

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Chapter 13

Design of a Domestic Defluoridizing Unit



Shaheda Parveen, Venkata Nadh Ratnakaram , Sireesha Malladi
and **K. Kiram Kumar**

Abstract While trace amounts of fluorine are essential for life, its excessive intake leads to a disease known as fluorosis. It is a predominant ailment in majority of the countries inclusive of India. It is caused also by drinking fluoride containing water. Retention of fluorine in bones and teeth occurs through $F^--(OH^-)$ exchange on their inorganic component known as hydroxylapatite. Endeavour of the present study is to design a column using activated alumina as an adsorbent for continuous defluoridation of water for domestic purpose. As a part of it, operational defluoridation capacity of alumina was determined by variation of different factors (amount of alumina, time, temperature, added salts). A family of four members was taken as a model. The initial and final fluoride concentrations were taken as 2.0 and 0.7 ppm, respectively. Dimension of the unit (adsorbent bed diameter and height) was determined.

Keywords Design · Domestic defluoridizing unit · Fluorosis

13.1 Introduction

Human beings and animals suffer from fluorosis due to extended acquaintance with fluoride containing water, air or food. India stands in the top listed countries which are challenged with fluorosis problem in view of obligatory consumption of water having high quantities of fluoride (1–48 ppm) [1]. In India, Andhra Pradesh State is one among the many affected belts by endemic fluoride [2]. As per Indian standards,

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A STUDY ON EXAMINING THE EFFECTIVENESS OF THE CROP INSURANCE SCHEMES IN INDIA AS WELL AS IN KRISHNA DISTRICT, ANDHRA PRADESH

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ABSTRACT

In the Krishna region agriculture is the main source of livelihood for the people and this region is predominantly known for crop cultivation. Agriculture in this region is badly affected due to poor rainfall and non-availability of water from most of reservoirs. Flood too sometimes spoils. The area under crops in Krishna region has decreased over the period of time. Among the regions, the most severely affected by both shortage and abundance of water, scarcity when water from reservoir is insufficient and does not reach in time, and when there is higher rainfall in the coastal areas due to cyclone or depression in the Bay of Bengal resulting in flood. In both situations, agriculture is affected. The immediate impact of the various disasters affecting agriculture has been partial or total loss of crop production from the particular season, and reduced productivity of land due to salinity during flood or lack of irrigation during droughts. In addition to this it also causes a loss in investments already made in seeds, labour, fertilizers and pesticides. As a result agricultural labourers and marginal farmers almost reach a stage of destitution. Farmers without a reservoir of savings would be left with no money to invest in the next crop season and likely to be driven to non-institutional high interest and fall in the trap of 'vicious circle' of poverty.

Keywords: Agriculture, Insurance, Poor rainfall, Crops, Crucial, Poverty.

INTRODUCTION

Agriculture in India has been described as a gamble in the hands of rains and, in addition, numerous natural and economic factors add to the uncertainty. A crop failure means not only the loss of a season, family income but also of the capital invested in the crop. As most of the farmers are resource poor and belong to small and marginal category their capacity to bear such loss is very limited, the resulting adversities of farmers lead to their failure to pay rents and taxes, loss of purchasing power and mounting debts. This leads to reduced harvesting and curtailment of agricultural operations in the subsequent seasons consequently increasing the unemployment among agriculture labour. Crop failures affect also the flow of raw materials to agro-industries. This way the entire economy of the country is affected by crop losses of which the farmers are direct and worst victims. In the interest of stabilizing the economy, it is, therefore, clear that adequate protection should be provided to the farmers to continue their agricultural operations unhampered and the economy undisturbed.

Agricultural sector plays a significant role in the process of economic development of India. Agriculture provides food to nation, labour, contributes raw materials to market of industrial goods and earns foreign exchange. Agricultural growth is an integral part of the overall economic development of a nation. Agricultural contribution towards the global economy was very low, but it remains central part to the lives of many people. According to the World Bank reports in 2018, 19 percent of the world's population was directly engaged in farming, but agricultural and allied sectors contributed 2.8 % of the total income. In India, Agriculture and allied activities contributed nearly 50 % towards the national income. Nearly 72 percent of total working population was engaged in agricultural sector. Agriculture is the means of earning livelihood for almost two thirds of the population in India. Most of the Indian population lives in its villages; therefore the share of agricultural sector becomes inevitable in the economic development of India. The share of agricultural sector in GDP has declined from 26.2% in 2000-01 to 21.7% in 2005-06. The rate of growth has also been fluctuating from 0% in 2000-01 to 5.9% in 2002-03 and as high as 9.3% in 2003-04 which again dipped to 0.6% in 2004-05. This is primarily because of decline in production while about 65.70% of population is depending on agriculture for their livelihood. Even after a decline in the share of agricultural sector of India, it is still considered to be the largest contributor to India's GDP. This confirms that Indian economy was mainly an agriculture based economy at the time of Independence.

NEED FOR CROP INSURANCE

In such a scenario, it is necessary to have a mechanism like crop insurance which would enable them to transfer their agricultural risks to a third party. In broader sense agricultural insurance provides the option for the farmers to manage the risk efficiently and also enable them to go for successive cultivation in the next season. Therefore, failure of crops is not a constraint to continue agriculture, unless it has negative impact on farming. Failure may act as a push factor to go for some other survival strategies. Hence such a process neither supports the livelihood of the farmers nor conducive for the growth of agriculture economy.



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Chapter: 14**BIOWASTE MATERIAL UTILIZATION FOR WATER
DEFLUORIDATION & STATISTICAL INVESTIGATION
OF GROUND WATER IN NALGONDA DISTRICT**

***Kiran Kumar K, Venkata Nadh Ratnakaram,
Krishnaveni G, Rao KS***

Introduction: According to World Health Organization, the permissible limit of fluoride concentration in drinking is under 1.5 mg l^{-1} . The presence of higher amounts of fluorine in potable water has adverse effects on human health. Nalgonda District of Telangana (erstwhile a part of Andhra Pradesh), India is reported to have high levels of fluoride in ground water which is used for drinking. It is confirmed by the occurrence of fluorosis amongst the villagers of the district.

Speedy industrialization and growth of population are creating water pollution. In parallel, continuous creation of biowaste is causing management problems. Global warming is caused by the conventional methods like landfill and incineration due to gases release [1]. However, biowaste is proved to be a good source for extraction of useful chemicals like ethanol [2], natural colours [3] and natural products of medicinal importance [4-10]. Another trend is conversion into adsorbents which are useful for abatement of water pollutants like chemical oxygen demand and toxic heavy metals – chromium (VI), lead (II), copper (II) etc [11-15]. In the reduction of water pollutants, adsorption technique is the well adopted technique. Though, activated alumina was proved to be the best adsorbent [16], the tweaking issue is its cost. Hence, preparation of activated carbons from biowaste (an abundantly available and inexpensive source) will help to substitute overpriced commercially available activated carbons. In addition, it also helps to the reduction of cost involved in disposal of biowaste [17].

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“An Impact of Developmental Programmes for Social Transformation of Scheduled Castes & Scheduled Tribes”

Book No-1



EDITOR

Dr. CH. VENU BABU

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Andhra Pradesh, India**

TRIBAL FARMERS AND TECHNOLOGY IN GUNTUR DISTRICT, ANDHRA PRADESH

Dr.Siva Prakash Rao Komma

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K.B.N. College, Vijayawada.Cell No: 0 9866696277

INTRODUCTION:

Innate populace in India, According to the 2011 Census there are 24, 94, 54,252 families of which 2, 14, 67,179 family units has a place with ST populace. All out populace of the nation is 1,21,05,69,573, out of these 10, 42, 81,034 are named ST with 5, 24, 09,823 guys and 5, 18, 71,211 females. The decadal development pace of the inborn populace during 2001-2011 is 23.7% which is higher than India's absolute decadal development (17.6%). The inborn populace of India comprise 8.6% of all out populace of the nation and lion's share of them dwell in the provincial territories (90%). Guntur region innate populace in 2011 statistics a populace 735,394 with a sex-proportion of 1,042 females for each 1,000 guys, much over the national normal of 929 females. In light of this an interest of ancestral ladies in farming clarify underneath. Agribusiness in India is the foundation of the nation and it assumes a significant job in the economy, is viewed as the biggest division of the nation's financial action. Over 80 percent of the Indian populace, either legitimately or by implication relies upon farming. Agribusiness is a solitary biggest generation in India. Agribusiness is the prime main thrust for nourishment security, rustic economy and practical financial improvement of ranchers. Agribusiness, as a beneficial segment gives a pathway out of neediness and has a significant large scale financial job whereupon differing economies are assembled. Ladies take part in every single farming activity aside from furrowing and planting of paddy, contributing between 70 to 80 percent of the all out work. Regardless of ancestral districts perform ineffectively as far as framework, comes back from farming and practically all human improvement pointers. In this examination inborn ranch ladies take the basic leadership process in eight horticulture activity like harvest determination, seed choice, seed treatment, utilization of composts, plant security measures, improved technique for capacity, time of selling ranch produce and so forth. Ancestral ladies speak to more than 50 percent of the populace living in the bumpy locales and effectively take part in the social, social and financial exercises and are significant supporters of work for farming, animals and residential and so on. Rustic ladies don't profit as they ought to from preparing and augmentation for the improvement of their aptitudes, working conditions and profitability. Contrasted with urban ladies, provincial ladies experience the ill effects of relative high absence of education rate and outstanding burden of residential and farming undertakings that point of confinement their cooperation in instructional meetings and augmentation.

Objectives of the Study

- To consider the profile qualities of innate ranch ladies.
- To give information on the plant security innovation in Commercial crops among innate homestead ladies through cutting edge correspondence devices.
- To examine the connection between profile qualities with the information gain and emblematic selection of inborn Guntur region ladies.

Scope and Importance of the Study

This examination features the extent of utilizing the propelled correspondence contraptions in showing the ancestral ranch ladies. PCs are getting more affordable and time isn't far when PCs will be utilized in the spot of network TVs in country India. In the period of developing IT, the correspondence of thoughts has gotten ardent, overriding the prior correspondence devices like Television, Radio, and Newspaper and so on. The entrance to IT is anyway a far off goes after the cultivating network, inferable from less availability, suitability and different obstructions.

Results and Discussions

This section deals with the results and discussions which are presented under the following

Table-1

Family Occupations in Guntur Region

S.No	Family occupations	Percent
1	Agriculture	94 (94.0)
2	Other	6(6.0)
Total		100 (100.0)

Source: Primary Data

Above the table explain the occupation wise classification of the respondent. Among 100 percentage of the respondent 94 percentage of them are involved in agriculture in Guntur Region

Table-2

Crop-wise working days during cropping season in Guntur Region

S.No	Crop	Working Days During Cropping Season
1	Paddy	7.48
2	Vegetables	7.01
3	Commercial crops	11.81
Total		28.30

Source: Primary Data

Cultivating exercises during mustard crop season regarding normal man-days was more, when contrasted with paddy (7.48) and vegetables (7.01). The purpose behind more interest during mustard crop season might be the effectiveness in the activities and good climate conditions. The male partners focused more on different works outside the town like development and brick work works during winter season which harmonizes with the mustard crop season.

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**“STRATEGIES FOR TRANSFORMING INDIA-
THE WAY FORWARD” (SFTD)**

VOLUME - I

Editors

N. Hemanth Kumar
Dr. K. Siva Prakasa Rao



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VOLUME - II

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Dr. K. Siva Prakasa Rao



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Structural Transformation is the Improved Quality of Life Andhra Pradesh Citizens

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In 1933, at the tallness of the incredible discouragement, noted British business analyst John Maynard Keynes composed an open letter to the President of the United States, Franklin D Roosevelt, urging him to authorize what came to be known as the New Deal, where interest in foundation turned into the silver slug to haul the world out of the extraordinary sorrow. The Indian Economic Survey 2017-18 evaluated that the nation will require \$4.5 trillion foundation venture by 2040. Quite a bit of this foundation venture should be centered around urban India, as by 2030, 40% of the nation's populace, or 600 million individuals, will dwell in urban communities. Considerably more significantly, India requires 700 to 900 million square meters of private and business space (comparable to Chicago) to be fabricated each year from this point until 2030 to oblige this 600 million for example 70% of India of 2030 will be worked in the following decade. The target of the Smart Cities Mission is to construct the up and coming age of Indian urban areas, where foundation is simple open and moderate, and where resident government commitment is proficient and viable. It intends to accomplish this by receiving the most recent in innovative progression whether it is RFID labels that make trash assortment simpler or coordinated traffic the executives frameworks that straightforwardness street clog innovation offers 'brilliant' answers for a considerable lot of our foundation challenges. Basically, innovation enables urban administration frameworks to accomplish more with less, along these lines facilitating the asset deficiency trouble.

The complete interest in the Smart Cities Mission is imagined to be over Rs 2,05,000 crore through 5,151 tasks. 896 activities worth roughly Rs 15,000 crore have been finished and another 1,895 ventures worth Rs 75,000 crore are under execution. The mission works intimately with private players, including global firms, to use their capital, skill, human asset, and innovation. Up until now, under

open private support model, 65 tasks worth over Rs 2,000 crore in 26 urban communities have been finished. 116 ventures worth over Rs 10,000 crore in 45 urban areas are being executed; and 91 tasks worth over Rs 9,600 crore in 36 urban communities are in cutting edge phases of offering. Also, 10 driving global organizations are taking an interest in any event 40 of the 100 chose Smart Cities.

Objectives of the Study:

1. To study the strategies of excellent global and domestic connectivity.
2. To study the strategies of integrated multi-modal transportation
3. To study the improved quality of life for the citizens.

Results & Discussions

Strategies for the transforming Andhra Pradesh the way to forward:

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Ports is Way to forward of Andhra Pradesh

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1	Optimising and expanding of existing port capacity Existing Minor ports to capitalise on capacity constraints of major ports along the east coast	Development of new ports to meet demand from industrial corridors
2	Capitalise on deep draft ports to handle cape-size vessels along the East Coast	Development of multimodal connectivity and supply chain/logistics infrastructure
3	Enhance port connectivity to existing ports to be enhanced	Development of bulk cargo ports to meet increased energy demands Development of Coastal shipping

Source: Primary Data



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On

“Women: The Key to ensure Food Security”



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Chapter: 29**THE NEED OF RESEARCH IN MATERIALS FOR
SPACE EXPLORATION**

***Dr. P.B.Sandhya Sri, Dr.S.V.G.V.A. Prasad,
Sk. Ayesha Begum, P.Anjaneyulu***

Introduction: Satellites and spacecraft are mainly composed of light metallic alloys and composites that have a high specific strength. This allows them to be shaped into light yet robust structures that can be safely launched to orbit and even delivered to distant planets, like Mars. As launching spacecraft becomes more affordable and satellites become more reliable, a profitable space economy is on the horizon.

However, in order to maximize spacecraft longevity and thus the chance of a successful mission, several factors must be taken into consideration. In space, there are no fueling stations or repair shops, and for interplanetary probes, no on-board crew who can maintain and control the spacecraft, so not much can be done in the event of a failure. Therefore, engineering spacecraft capable of self-controlled, self-adapting, and self-healing behavior to cope with the predictable and unpredictable challenges encountered in space is crucial.

Self-healing, dynamic adaptation, and multi functionality - These three key features offer a "life raft" for spacecraft, ensuring survival and efficient operation under the rapidly changing conditions of space. Although there is already a rich diversity of approaches and material platforms that have one or more of these features, and some progress has already been made in which the basic principles of self-healing have been explored for alloys, composites, and polymers, significant progress is still required in order to apply dynamic self-healing materials to space technology.

Chapter: 30**PLASTIC ELECTRONICS
- PAST, PRESENT & FUTURE*****R.Uday Kumar, D,Prem Kumar, P.Vishnu Vardhan***

Introduction: "Plastic electronics is a generic large-area electronic structure is composed of a substrate, a backplane and a front plane system and an encapsulation. [1] To make the structure flexible, all components must comply with bending to some degree without losing their function and without delamination. Other words, flexible electronics, also known as "flex circuits", is a technology for assembling electronic circuits by mounting electronic devices on flexible plastic substrates. Commonly, the substrates are made of polyimide, PEEK or transparent conductive polyester film[2].

Flexible Electronics: Flexible electronics have a long history. The first flexible device was made in the 1960s by thinning crystalline silicon solar cells for use in extraterrestrial satellites. Today, smart credit cards carry bendable microchips which are made using stretchable silicon.

Financially, flexible electronics generate revenue worth USD 23.92 billion. [4] It is at an inflection point and set to boom in the next 5 to 10 years. The ruggedness, portability, light-weight and low cost of production of flexible electronics, will revolutionize the electronic industry.

Materials are the heart of this technology. Flexibility can be attributed to a myriad of qualities ranging from how bendable a device is to whether it is manufactured using roll-to-roll processes. To the commercial world, flexible electronics means flexible displays and X-ray sensor arrays. However, flexible means a laptop which can be rolled like a yoga mattress, textile which have electronic circuits on them and an electronic skin.



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**AWARENESS AMONG THE TRIBES WITH REGARD TO
DEVELOPMENTAL PROGRAMMES IN INDIA: A CASE STUDY OF
KRISHNA DISTRICT, ANDHRA PRADESH**

Dr.V.Narayana Rao

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Vijayawada

Extraordinary Economic Development of the Scheduled Tribes and security against their misuse has been an essential plan of the Government. To guarantee that the sacred orders recorded above and converted into different arrangements and projects and put into viable activity, high need for the welfare and advancement of booked Tribes directly from the earliest starting point of the First Five Year Plan {1952-57} is being recorded. Perceiving their exceptional issues the standards of panchsheel have been adopted in the Welfare and improvement of these networks to guarantee a comprehension of their way of life and conventions and a valuation for the social mental and monetary issues with which they are confronted a critical milestone was opening of 43 Special Multi reason Tribal Blocks {SMTBs} amid the Second Five Year plan later called Tribal Development Blocks [TDBs], each having around 25000 individuals as against 65000 of every an ordinary square A measure of Rs.15.0 lakh per SMPTB was contributed by the Central Government. Further an essential advance toward this path was taken amid the Fourth Multi year plan when six pilot extends in Andhra Pradesh Bihar Madhya Pradesh and Orissa were set up in the Central part A different Tribal Development Agency was built up for each venture and a measure of Rs.2.0 crore was assigned to these organizations commission and panels delegated by the Government to audit the inborn circumstance conveyed to its notice that the permeation hypothesis had not helped the ancestral in getting their due offer and the regressive classes division had substituted general segments as opposed to enhancing them and saw significantly more was as yet expected to raise the STs keeping pace with the overall public of the country. The Fifth multiyear plan denoted a move in the methodology when the Tribal sub Plan [TSP] for direct advantage of the STs was propelled. The Tribal Sub – Plan for the Scheduled Tribes was intended to channelize the stream of costs and advantages from the general parts in the states and Union Territories [UTs] and Central Ministries in extent to their populace both in physical and money related terms.