3.3.2. NUMBER OF BOOKS AND CHAPTERS IN EDITED VOLUMES/BOOKS PUBLISHED AND PAPERS PUBLISHED IN NATIONAL/ INTERNATIONAL CONFERENCE PROCEEDINGS PER TEACHER DURING THE YEAR

NAMES OF THE AUTHORS
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DR. SHWETA THAKUR
DR. SHWETA THAKUR
DR. SHWETA THAKUR
MR. MANU MAHAJAN

St. Bede's College Shimla

1. Neha Walia - Department of Computer Science
Title of Proceedings: Third International Conference on Innovations in Computing
Title of Paper: Association Rule Mining for Stock Data
Year: 2019
ISSN: 2005-4238IJAST


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Certificate

Certified that Ms. Neha Walia
Research Scholar / Professional from H.P. University, Shimla
has participated/presented/co-authored paper titled Association Rule Mining for Stock Data
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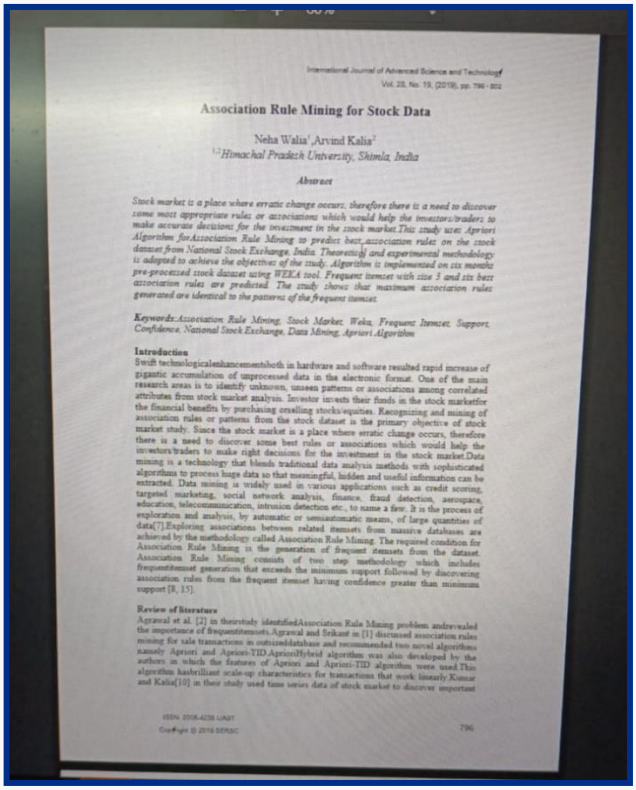

International Journal of Advanced Science and Technology
Vol. 28, No. 19, (2019), pp. 796 - 802

Association Rule Mining for Stock Data

Neha Walia[1], Arvind Kalia[2]
[1,2]Himachal Pradesh University, Shimla, India

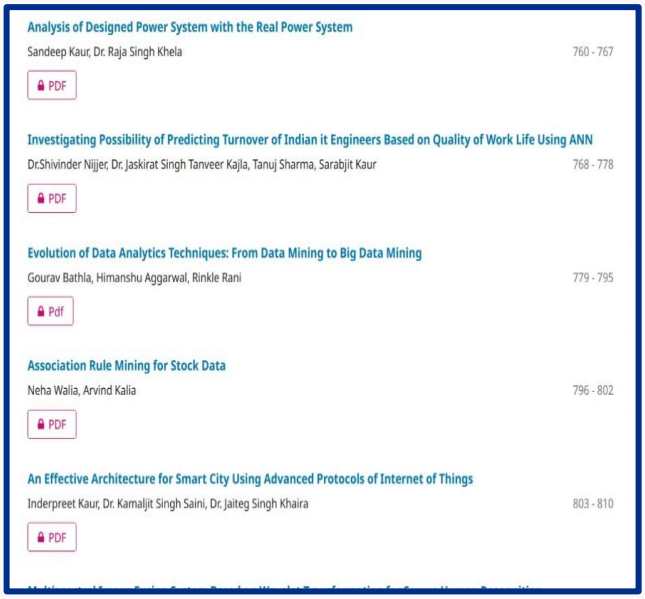
Abstract

Stock market is a place where erratic change occurs, therefore there is a need to discover some most appropriate rules or associations which would help the investors/traders to make accurate decisions for the investment in the stock market.This study uses Apriori Algorithm for Association Rule Mining to predict best association rules on the stock dataset from National Stock Exchange, India. Theoretical and experimental methodology is adopted to achieve the objectives of the study. Algorithm is implemented on six months pre-processed stock dataset using WEKA tool. Frequent itemset with size 3 and six best association rules are predicted. The study shows that maximum association rules generated are identical to the patterns of the frequent itemset.

Keywords: Association Rule Mining, Stock Market, Weka, Frequent Itemset, Support, Confidence, National Stock Exchange, Data Mining, Apriori Algorithm

Introduction

Review of literature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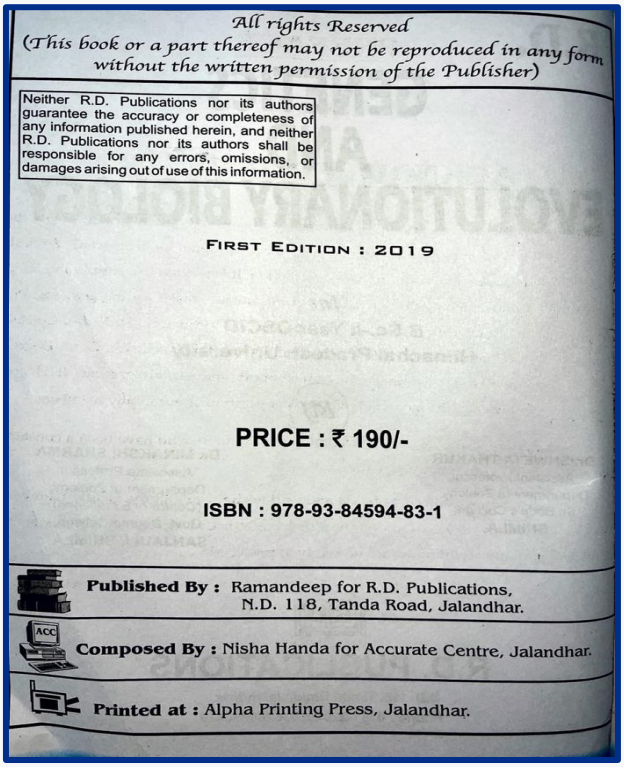

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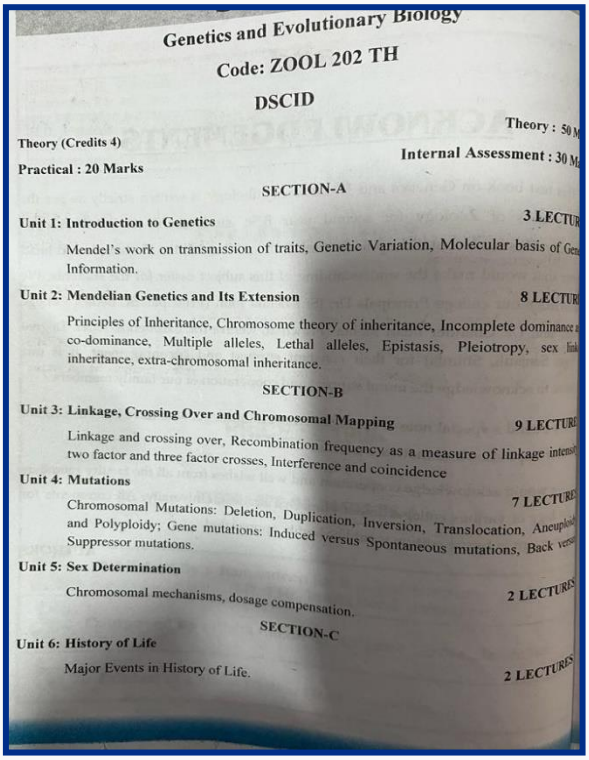

Genetics and Evolutionary Biology

Code: ZOOL 202 TH

DSCID

Theory (Credits 4) — Theory : 50 M

Practical : 20 Marks — Internal Assessment : 30 M

SECTION-A

Unit 1: Introduction to Genetics — 3 LECTU

Mendel's work on transmission of traits, Genetic Variation, Molecular basis of Gen Information.

Unit 2: Mendelian Genetics and Its Extension — 8 LECTU

Principles of Inheritance, Chromosome theory of inheritance, Incomplete dominance co-dominance, Multiple alleles, Lethal alleles, Epistasis, Pleiotropy, sex lin inheritance, extra-chromosomal inheritance.

SECTION-B

Unit 3: Linkage, Crossing Over and Chromosomal Mapping — 9 LECTU

Linkage and crossing over, Recombination frequency as a measure of linkage intensi two factor and three factor crosses, Interference and coincidence

Unit 4: Mutations — 7 LECTU

Chromosomal Mutations: Deletion, Duplication, Inversion, Translocation, Aneuploid and Polyploidy; Gene mutations: Induced versus Spontaneous mutations, Back vers Suppressor mutations.

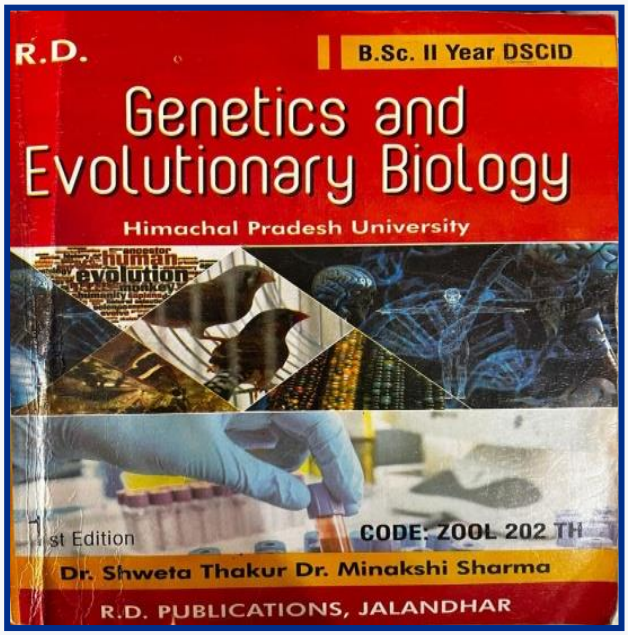
Unit 5: Sex Determination — 2 LECTURE

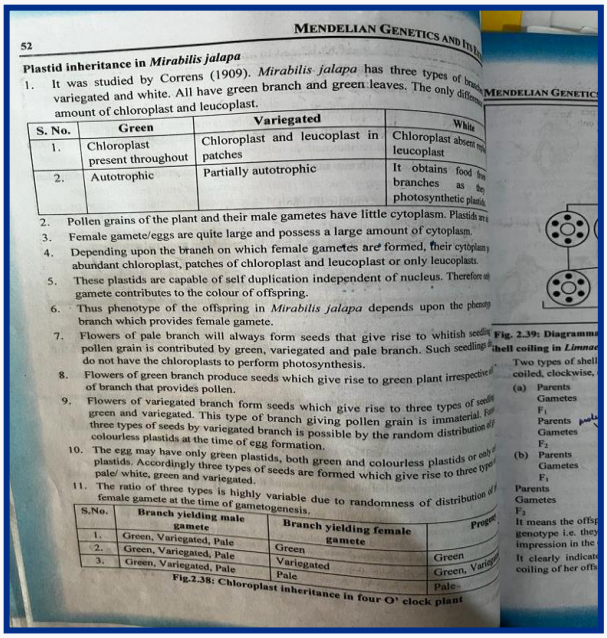
Chromosomal mechanisms, dosage compensation.

SECTION-C

Unit 6: History of Life — 2 LECTURE

Major Events in History of Life.




52 MENDELIAN GENETICS AND ITS

Plastid inheritance in *Mirabilis jalapa*

1. It was studied by Correns (1909). *Mirabilis jalapa* has three types of leaves variegated and white. All have green branch and green leaves. The only differe amount of chloroplast and leucoplast.

S. No.	Green	Variegated	White
1.	Chloroplast present throughout	Chloroplast and leucoplast in patches	Chloroplast absent leucoplast
2.	Autotrophic	Partially autotrophic	It obtains food branches as the photosynthetic plastid

2. Pollen grains of the plant and their male gametes have little cytoplasm. Plastids are
3. Female gamete/eggs are quite large and possess a large amount of cytoplasm.
4. Depending upon the branch on which female gametes are formed, their cytoplasm abundant chloroplast, patches of chloroplast and leucoplast or only leucoplasts.
5. These plastids are capable of self duplication independent of nucleus. Therefore gamete contributes to the colour of offspring.
6. Thus phenotype of the offspring in *Mirabilis jalapa* depends upon the phenoty branch which provides female gamete.
7. Flowers of pale branch will always form seeds that give rise to whitish seedlin pollen grain is contributed by green, variegated and pale branch. Such seedlings do not have the chloroplasts to perform photosynthesis.
8. Flowers of green branch produce seeds which give rise to green plant irrespective of branch that provides pollen.
9. Flowers of variegated branch form seeds which give rise to three types of seedlin green and variegated. This type of branch giving pollen grain is immaterial. For three types of seeds by variegated branch is possible by the random distribution of colourless plastids at the time of egg formation.
10. The egg may have only green plastids, both green and colourless plastids or only plastids. Accordingly three types of seeds are formed which give rise to three types pale/ white, green and variegated.
11. The ratio of three types is highly variable due to randomness of distribution of female gamete at the time of gametogenesis.

S.No.	Branch yielding male gamete	Branch yielding female gamete	Progen
1.	Green, Variegated, Pale	Green	Green
2.	Green, Variegated, Pale	Variegated	Green, Variega
3.	Green, Variegated, Pale	Pale	Pale

Fig.2.38: Chloroplast inheritance in four O' clock plant

MENDELIAN GENETICS

Fig. 2.39: Diagramma shell coiling in *Limnae*

Two types of shell coiled, clockwise,

(a) Parents Gametes F_1 Parents Gametes F_2

(b) Parents Gametes F_1 Parents Gametes F_2

It means the offsp genotype i.e. they impression in the

It clearly indicat coiling of her offs

Book published by Dr. Shweta Thakur

BACK

3. Dr. Shweta Thakur - Department of Zoology
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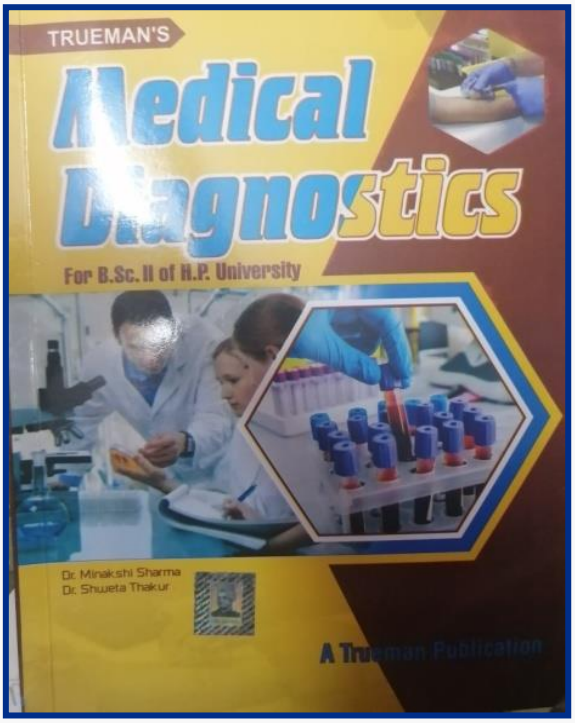

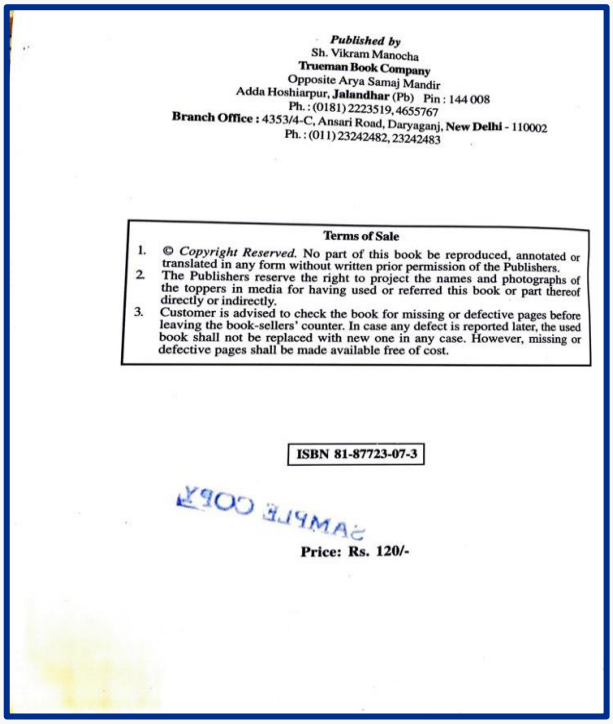
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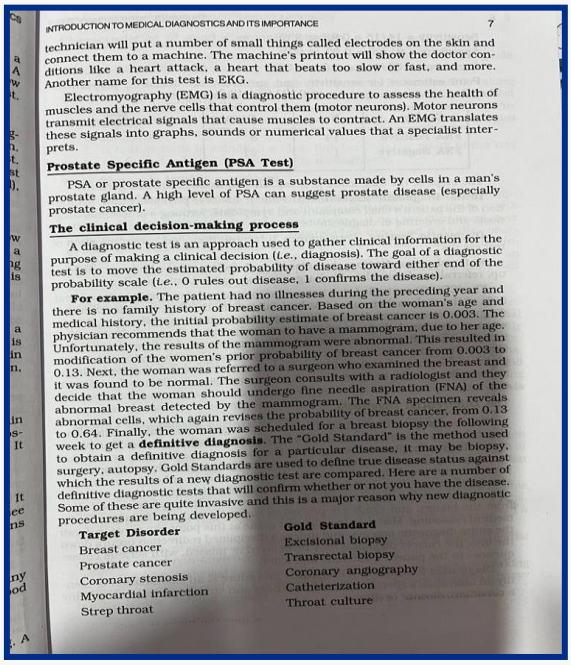


technician will put a number of small things called electrodes on the skin and connect them to a machine. The machine's printout will show the doctor conditions like a heart attack, a heart that beats too slow or fast, and more. Another name for this test is EKG.

Electromyography (EMG) is a diagnostic procedure to assess the health of muscles and the nerve cells that control them (motor neurons). Motor neurons transmit electrical signals that cause muscles to contract. An EMG translates these signals into graphs, sounds or numerical values that a specialist interprets.

Prostate Specific Antigen (PSA Test)

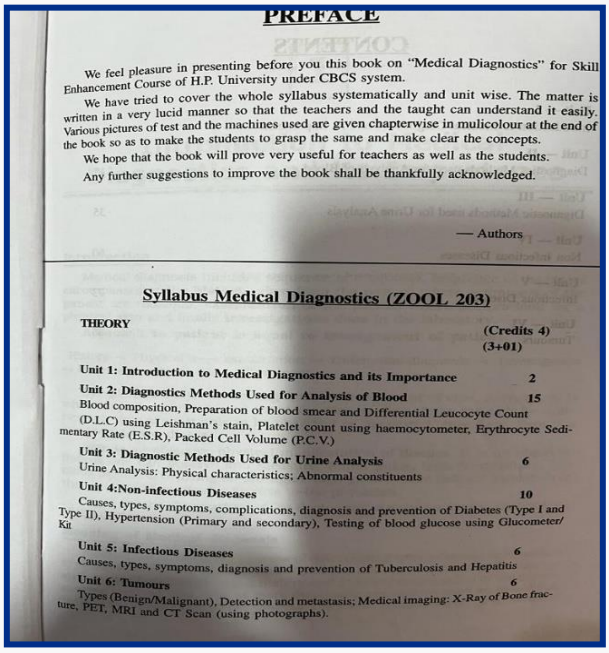
PSA or prostate specific antigen is a substance made by cells in a man's prostate gland. A high level of PSA can suggest prostate disease (especially prostate cancer).

The clinical decision-making process

A diagnostic test is an approach used to gather clinical information for the purpose of making a clinical decision (*i.e.*, diagnosis). The goal of a diagnostic test is to move the estimated probability of disease toward either end of the probability scale (*i.e.*, 0 rules out disease, 1 confirms the disease).

For example. The patient had no illnesses during the preceding year and there is no family history of breast cancer. Based on the woman's age and medical history, the initial probability estimate of breast cancer is 0.003. The physician recommends that the woman to have a mammogram, due to her age. Unfortunately, the results of the mammogram were abnormal. This resulted in modification of the women's prior probability of breast cancer from 0.003 to 0.13. Next, the woman was referred to a surgeon who examined the breast and it was found to be normal. The surgeon consults with a radiologist and they decide that the woman should undergo fine needle aspiration (FNA) of the abnormal breast detected by the mammogram. The FNA specimen reveals abnormal cells, which again revises the probability of breast cancer, from 0.13 to 0.64. Finally, the woman was scheduled for a breast biopsy the following week to get a **definitive diagnosis**. The "Gold Standard" is the method used to obtain a definitive diagnosis for a particular disease, it may be biopsy, surgery, autopsy. Gold Standards are used to define true disease status against which the results of a new diagnostic test are compared. Here are a number of definitive diagnostic tests that will confirm whether or not you have the disease. Some of these are quite invasive and this is a major reason why new diagnostic procedures are being developed.

Target Disorder	Gold Standard
Breast cancer	Excisional biopsy
Prostate cancer	Transrectal biopsy
Coronary stenosis	Coronary angiography
Myocardial infarction	Catheterization
Strep throat	Throat culture



PREFACE

We feel pleasure in presenting before you this book on "Medical Diagnostics" for Skill Enhancement Course of H.P. University under CBCS system.

We have tried to cover the whole syllabus systematically and unit wise. The matter is written in a very lucid manner so that the teachers and the taught can understand it easily. Various pictures of test and the machines used are given chapterwise in mulicolour at the end of the book so as to make the students to grasp the same and make clear the concepts.

We hope that the book will prove very useful for teachers as well as the students.

Any further suggestions to improve the book shall be thankfully acknowledged.

— Authors

Syllabus Medical Diagnostics (ZOOL 203)

THEORY **(Credits 4)**
(3+01)

Unit 1: Introduction to Medical Diagnostics and its Importance 2

Unit 2: Diagnostics Methods Used for Analysis of Blood 15
Blood composition, Preparation of blood smear and Differential Leucocyte Count (D.L.C) using Leishman's stain, Platelet count using haemocytometer, Erythrocyte Sedimentary Rate (E.S.R), Packed Cell Volume (P.C.V.)

Unit 3: Diagnostic Methods Used for Urine Analysis 6
Urine Analysis: Physical characteristics; Abnormal constituents

Unit 4:Non-infectious Diseases 10
Causes, types, symptoms, complications, diagnosis and prevention of Diabetes (Type I and Type II), Hypertension (Primary and secondary), Testing of blood glucose using Glucometer/ Kit

Unit 5: Infectious Diseases 6
Causes, types, symptoms, diagnosis and prevention of Tuberculosis and Hepatitis

Unit 6: Tumours 6
Types (Benign/Malignant), Detection and metastasis; Medical imaging: X-Ray of Bone fracture, PET, MRI and CT Scan (using photographs).

Book published by Dr. Shweta Thakur

BACK

4. Dr. Shweta Thakur: Department of Zoology
Title of Book: Biosystematics Studies on Some Noctuid Moths through RAPD-PCR Technique
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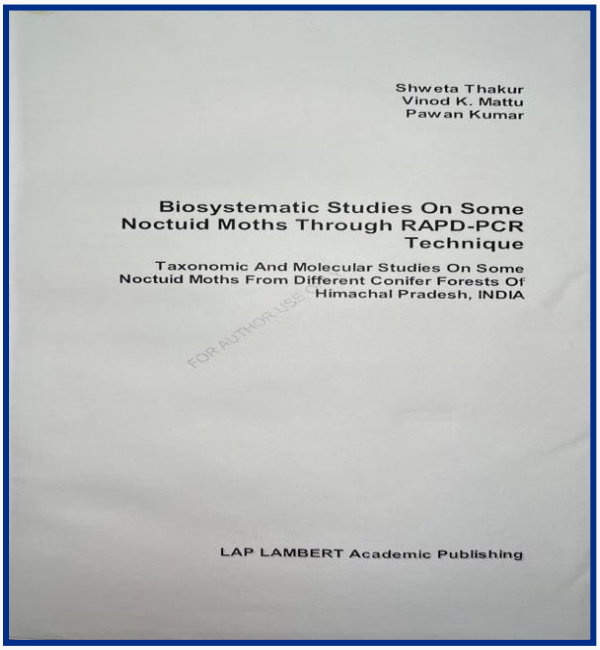

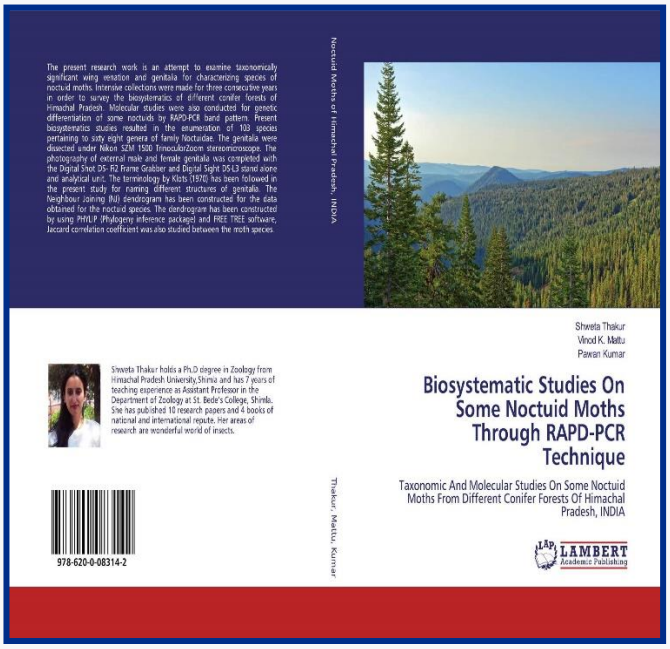

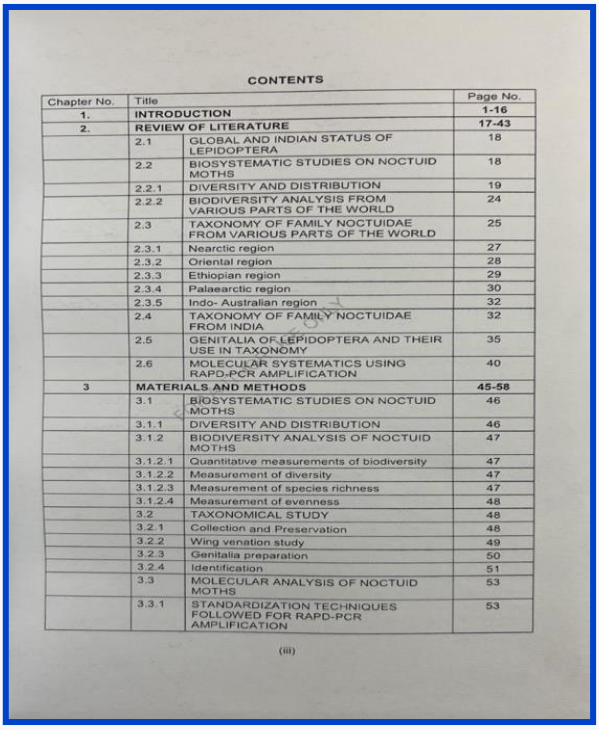

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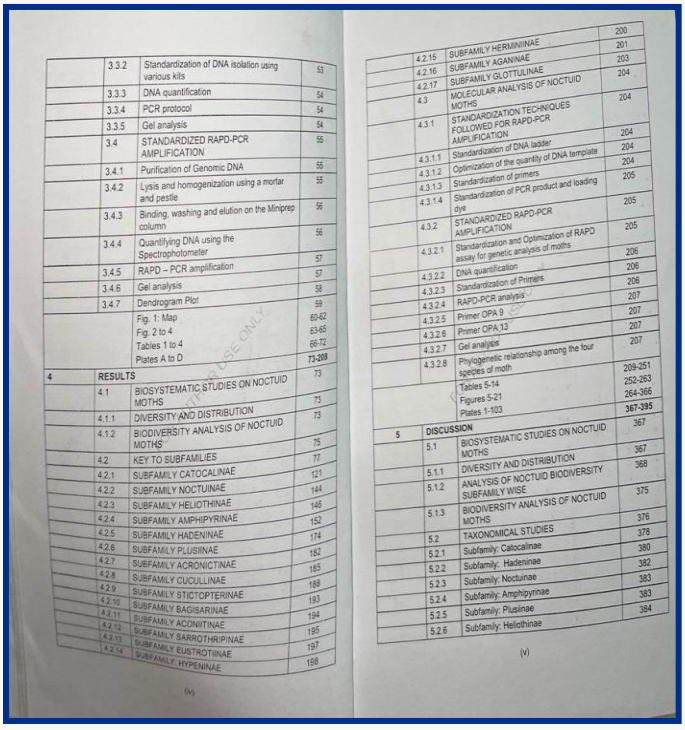

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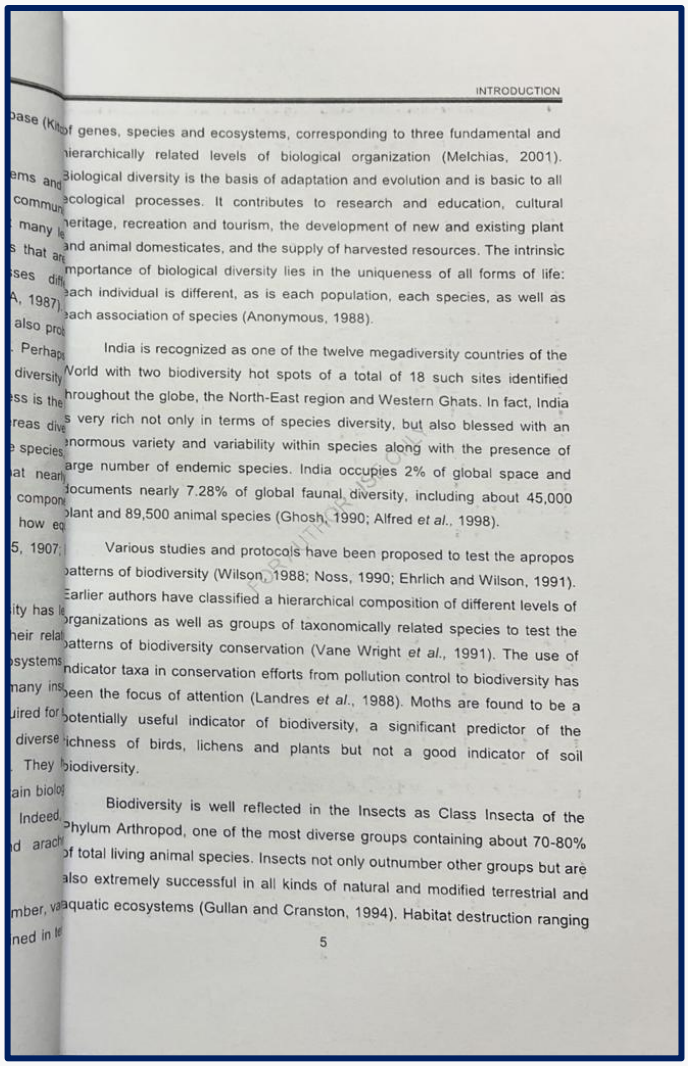

of genes, species and ecosystems, corresponding to three fundamental and hierarchically related levels of biological organization (Melchias, 2001). Biological diversity is the basis of adaptation and evolution and is basic to all ecological processes. It contributes to research and education, cultural heritage, recreation and tourism, the development of new and existing plant and animal domesticates, and the supply of harvested resources. The intrinsic importance of biological diversity lies in the uniqueness of all forms of life: each individual is different, as is each population, each species, as well as each association of species (Anonymous, 1988).

India is recognized as one of the twelve megadiversity countries of the World with two biodiversity hot spots of a total of 18 such sites identified throughout the globe, the North-East region and Western Ghats. In fact, India is very rich not only in terms of species diversity, but also blessed with an enormous variety and variability within species along with the presence of large number of endemic species. India occupies 2% of global space and documents nearly 7.28% of global faunal diversity, including about 45,000 plant and 89,500 animal species (Ghosh, 1990; Alfred *et al.*, 1998).

Various studies and protocols have been proposed to test the apropos patterns of biodiversity (Wilson, 1988; Noss, 1990; Ehrlich and Wilson, 1991). Earlier authors have classified a hierarchical composition of different levels of organizations as well as groups of taxonomically related species to test the patterns of biodiversity conservation (Vane Wright *et al.*, 1991). The use of indicator taxa in conservation efforts from pollution control to biodiversity has been the focus of attention (Landres *et al.*, 1988). Moths are found to be a potentially useful indicator of biodiversity, a significant predictor of the richness of birds, lichens and plants but not a good indicator of soil biodiversity.

Biodiversity is well reflected in the Insects as Class Insecta of the Phylum Arthropod, one of the most diverse groups containing about 70-80% of total living animal species. Insects not only outnumber other groups but are also extremely successful in all kinds of natural and modified terrestrial and aquatic ecosystems (Gullan and Cranston, 1994). Habitat destruction ranging

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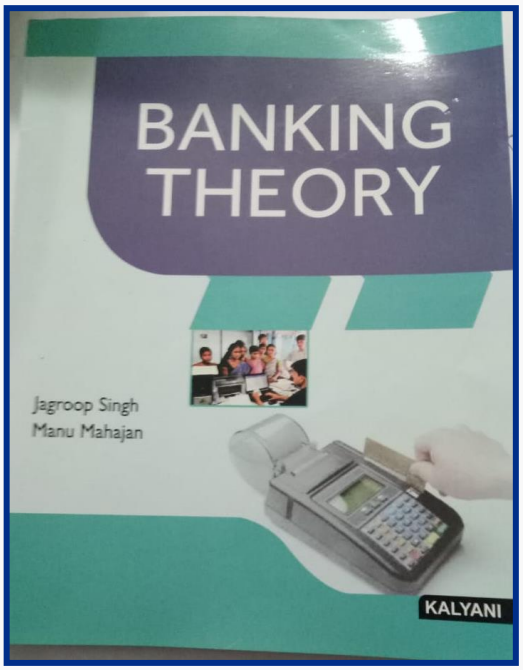

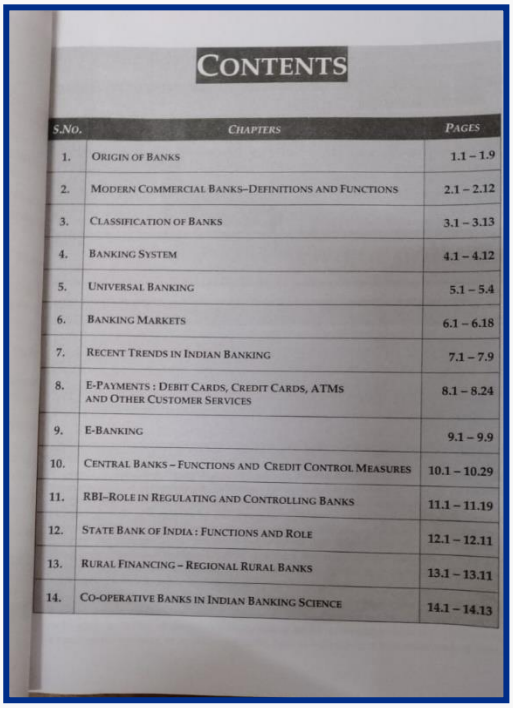

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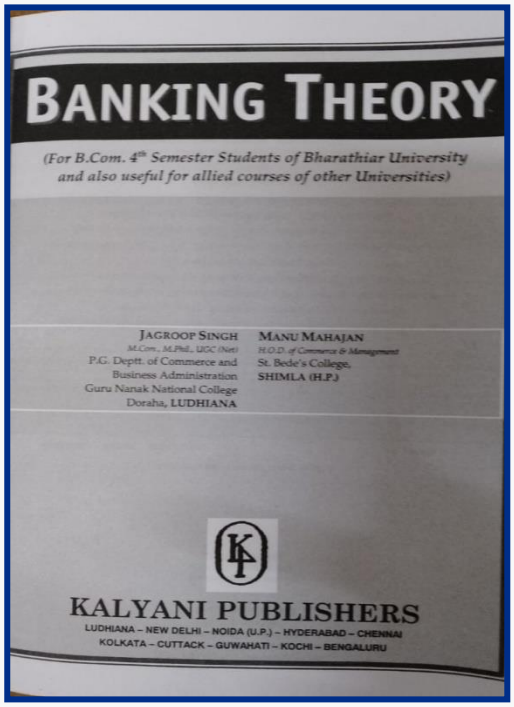

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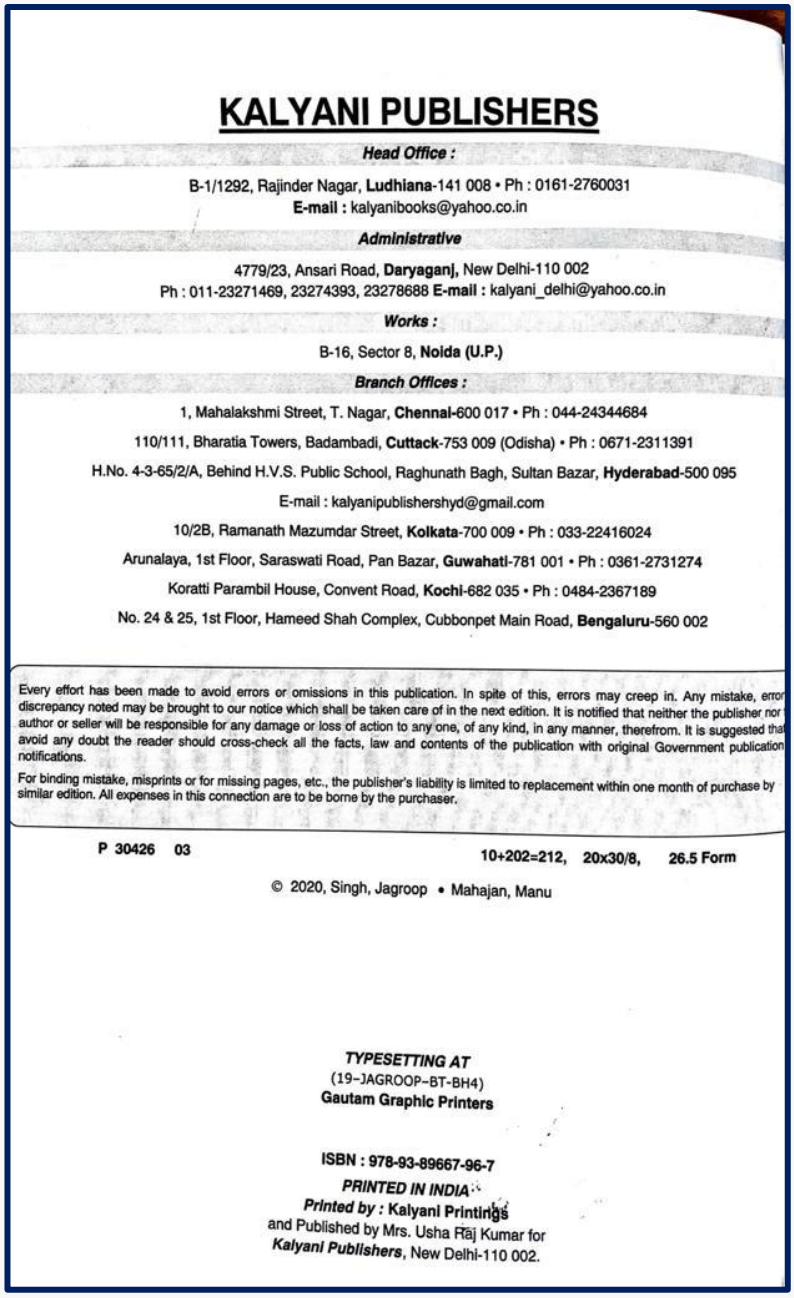

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