

D3300619

**GOVERNMENT OF KARNATAKA
(BOARD OF EXAMINING AUTHORITY)
D Pharm. Part- I Examinations (ER-91), JUNE 2019
PHARMACOGNOSY**

Time : 3 Hours

Max Marks: 80

Note: Answer any **TEN** questions from Section A and **THREE** questions from Section B Question No 14 is compulsory.

SECTION-A

(4X10=40)

1. Define glycosides. Write a note on Cardiac glycosides.
2. What are Diuretics? Write the Biological Source, Chemical Constituents and uses of any TWO Diuretic drugs.
3. Explain cultivation and collection of RAUWOLFIA.
4. Give the source and uses of drugs containing following active constituents.
a) Cepheline b) Ricinoleic acid c) Piperine d) Curcumin
5. What are sutures? Give the method of preparation of surgical catgut.
6. Write a note on the general chemical tests for Black and Pale Catechu.
7. Define Extractive value. Mention different types with their significance.
8. Define the following a) Pharmacognosy b) Drug adulteration
9. Write a note on Vitamines.
10. Define and give examples for following uses.
a) Carminatives b) Antidiabetics c) Antitumors d) Astringents
11. Write and explain chemical tests for HONEY and GELATIN (any TWO for Each drug).
12. Explain the morphology of EPHEDRA and SENNA with diagrams.
13. Differentiate plant fibres and animal fibres with suitable examples.

SECTION –B -

14. a) Mention various systems of classification of crude drugs. Explain any TWO methods of classification of crude drugs.
b) Define drug evaluation. Explain Physical evaluation. (2+6+2+4=14)
OR
a) Explain Morphology and Microscopy of CORIANDER with neat labeled diagrams.
b) Write a note History of Pharmacognosy. (2+6+6=14)
15. a) Write a note on volatile oils.
b) Explain the Pharmacognosy of ERGOT including its Life cycle. (5+8=13)
16. What are Pharmaceutical aids? Explain in detail any 3 drugs used as pharmaceutical aids. (13)
17. a) Explain Homeopathic system of medicine.
b) Write a note on Antileprotics.
c) Describe Solanaceous drugs. (5+4+4=13)

Supplementary Papers 2015

**Natalia Yakovleva, Regina Frei, Sudhir
Rama Murthy**



Supplementary Papers 2015:

Geological Survey Water-supply Paper, 1973 *Supply Chain Risk Management* Yacob Khojasteh, 2017-07-24 This book covers important issues related to managing supply chain risks from various perspectives Supply chains today are vulnerable to disruptions with a significant impact on firms business and performance The aim of supply chain risk management is to identify the potential sources of risks and implement appropriate actions in order to mitigate supply chain disruptions This book presents a set of models frameworks strategies and analyses that are essential for managing supply chain risks As a comprehensive collection of the latest research and most recent cutting edge developments on supply chain risk and its management the book is structured into three main parts 1 Supply Chain Risk Management 2 Supply Chain Vulnerability and Disruptions Management and 3 Toward a Resilient Supply Chain Leading academic researchers as well as practitioners have contributed chapters combining theoretical findings and research results with a practical and contemporary view on how companies can manage the supply chain risks and disruptions as well as how to create a resilient supply chain This book can serve as an essential source for students and scholars who are interested in pursuing research or teaching courses in the rapidly growing area of supply chain risk management It can also provide an interesting and informative read for managers and practitioners who need to deepen their knowledge of effective supply chain risk management **Supply Chain**

Configuration Charu Chandra, Janis Grabis, 2016-03-18 This book discusses the models and tools available for solving configuration problems emphasizes the value of model integration to obtain comprehensive and robust configuration decisions proposes solutions for supply chain configuration in the presence of stochastic and dynamic factors and illustrates application of the techniques discussed in applied studies It is divided into four parts which are devoted to defining the supply chain configuration problem and identifying key issues describing solutions to various problems identified proposing technologies for enabling supply chain confirmations and discussing applied supply chain configuration problems Its distinguishing features are an explicit focus on the configuration problem an in depth coverage of configuration models an emphasis on model integration and application of information modeling techniques in decision making New to this edition is Part II Technologies which introduces readers to various technologies being utilized for supply chain configuration and contains two new chapters The volume also has an added emphasis on the most recent theoretical developments and empirical findings in the area of supply chain management and related topics This book is appropriate for professional and technical readers including research directors research associates and institutions involved in both the design and implementation of logistics systems in manufacturing and service related products An equally appropriate audience is the academic reader including professors research associates and students in industrial manufacturing mechanical and automotive engineering departments as well as engineering management management sciences and production and operations management *Supply Chain Finance and Blockchain Technology* Erik Hofmann, Urs Magnus Strewe, Nicola

Bosia,2017-08-03 This book investigates how the Blockchain Technology BCT for Supply Chain Finance SCF programs allows businesses to come together in partnerships and accelerate cash flows throughout the supply chain BCT promises to change the way individuals and corporations exchange value and information over the Internet and is perfectly positioned to enable new levels of collaboration among the supply chain actors The book reveals new opportunities stemming from the application of BCT to SCF financing solutions particularly reverse factoring or approved payables financing To do so it first identifies the principal barriers and pain points in delivering financing solutions Then a possible blockchain driven supply chain model is defined Using this framework the book subsequently discusses relevant use cases for the technology which could open up new opportunities in the SCF space It demonstrates that blockchain and distributed ledgers technologies could deliver substantial benefits for all parties involved in SCF transactions promising to expedite the processes and lower the overall costs of financing programs Industry giants such as IBM Maersk China based Dianrong and FnConn a Foxconn subsidiary are currently working to digitize the global cross border supply chain using blockchain technology and will likely soon create blockchain platforms for supply chain finance These solutions aim to reduce complexity and make data sharing more secure accurate and efficient This book offers a highly topical resource for stakeholders across the entire supply chain helping them prepare for the upcoming technological revolution **Lean and Green Supply Chain Management** Turan

Paksoy, Gerhard-Wilhelm Weber, Sandra Huber, 2018-11-11 This book presents the latest developments in optimization and optimal control models exact approximate and hybrid methods and their applications in lean and green supply chains It examines supply chain network design and modeling closed loop supply chains and lean green resilient and agile or responsive networks and also discusses corporate social responsibility and occupational health and safety It particularly focuses on supply chain management under uncertainty employing stochastic or nonlinear modeling simulation based studies and optimization multi criteria decision making and applications of fuzzy set theory and covers various aspects of supply chain management such as risk management supplier selection or the design of automated warehouses Lastly using experimental applications and practical case studies it shows the impact of lean and green applications on vehicle fleet management and operations management *Textbook of Periodontics* Shalu Bathla, 2021-02-10 Section 1 Normal

Periodontium Section 2 Classification and Epidemiology Section 3 Etiology Section 4 Pathology of Gingival and Periodontal Diseases Section 5 Diagnosis Section 6 Treatment Nonsurgical Therapy Section 7 Treatment Surgical Therapy Section 8 Implantology Section 9 Interdisciplinary Approach Section 10 Recent Advances Section 11 Maintenance Phase Section 12 Miscellaneous **Innovative Solutions for Sustainable Supply Chains** Hassan Qudrat-Ullah, 2018-08-28 This book presents the latest tools techniques and solutions that decision makers use to overcome the challenges faced by their sustainable supply chains Given the ever increasing significance of socio economic and environmental factors the management of sustainable supply chains has become a complex and dynamic task Multiple and conflicting objectives of stakeholders

including suppliers manufacturers service providers and retailers add to the complexity of decisions that modern day managers of supply chains face With the unprecedented technological developments and innovations at hand sustainability can be maximized for all the activities of a supply chain including service concept and product design material sourcing and procurement manufacturing processes delivery of the final product and end of life management of the product Consequently the sustainable supply chains problems require a systematic and integrated approach Modeling and simulation in general as well as system dynamics and agent based modeling in particular have the capabilities to deal with the complexity of sustainable supply chain related problems This book will appeal to professionals and researchers in the field *Sessional Papers* Canada. Parliament,1899 Report of the Dominion fishery commission on the fisheries of the province of Ontario 1893 issued as an addendum to vol 26 no 7 *Credit Supply and Productivity Growth* Francesco Manaresi,Mr.Nicola Pierri,2019-05-17 We study the impact of bank credit on firm productivity We exploit a matched firm bank database covering all the credit relationships of Italian corporations together with a natural experiment to measure idiosyncratic supply side shocks to credit availability and to estimate a production model augmented with financial frictions We find that a contraction in credit supply causes a reduction of firm TFP growth and also harms IT adoption innovation exporting and adoption of superior management practices while a credit expansion has limited impact Quantitatively the credit contraction between 2007 and 2009 accounts for about a quarter of observed the decline in TFP **Materials Science and Engineering:**

Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2017-01-11 The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology By better understanding the components and structures of materials researchers can increase its applications across different industries Materials Science and Engineering Concepts Methodologies Tools and Applications is a compendium of the latest academic material on investigations technologies and techniques pertaining to analyzing the synthesis and design of new materials Through its broad and extensive coverage on a variety of crucial topics such as nanomaterials biomaterials and relevant computational methods this multi volume work is an essential reference source for engineers academics researchers students professionals and practitioners seeking innovative perspectives in the field of materials science and engineering

Sustainable Development Goals and Sustainable Supply Chains in the Post-global Economy Natalia Yakovleva,Regina Frei,Sudhir Rama Murthy,2019-05-21 This book presents a collection of studies on current best practices for delivering sustainable development policies within supply chains It critiques the limitations of existing business theory and practice on sustainable supply chain management and discusses opportunities for new conceptual models for businesses to engage with Sustainable Development Goals SDGs It examines how businesses can work towards implementing Sustainable Development Goals in the contexts of entrepreneurial initiative industry collaboration and regional development SDGs renew the sustainable development agenda for global communities and ask businesses and organisations to reset their sustainable

development policies A strategy to embed sustainable development principles into business operations along the supply chain operations which has been a conceptual and in many instances practitioner business and industry achievement of the past decades is not enough to shift the economic and social conditions of poor populations around the world How would the global supply chains of the future look like What social relations does it envisage How will businesses and organisations engage with societies environments and complex institutional contexts in emerging markets and developing countries which are faced with issues of population growth needed leaps in infrastructure provision educational and health improvements cultural and institutional shifts The books challenges current approaches to sustainable supply chain practices guided by discussion on SDGs It reviews implementation issues of existing sustainable development approaches assesses the advancement of sustainable development strategies and examines the opportunities for global value chains to increase their positive social and environmental inputs in regions communities and organisations The book collects both conceptual and empirical studies set in a variety of business and organisational contexts such as manufacturing retail procurement cities and industrial parks It contests the accepted axioms of sustainable practices in the global supply chains and proposes new models for organisations and production networks to engage with societies and address market and production effects on communities and institutions

Handbook on the Sustainable Supply Chain Joseph Sarkis, 2019 Supply chain management has long been a feature of industry and commerce but with increasing demands from consumers producers are spending more time and money investing in ways to make supply chains more sustainable This exemplary Handbook provides readers with a comprehensive overview of current research on sustainable supply chain management Ecological and Human Dimensions of AI-Based Supply Chain Taghipour, Atour, 2025-02-25 The integration of artificial intelligence AI into supply chain management has not only transformed the way businesses operate but also highlighted the interplay between ecological and human dimensions On the ecological side AI technologies optimize resource use reduce waste and minimize environmental impact through more efficient logistics and demand forecasting The human dimension focuses on how AI affects labor decision making and ethical considerations As AI evolves further exploration into a balance between sustainability and human well being may ensure that its benefits are maximized while minimizing any negative consequences on the environment and society Ecological and Human Dimensions of AI Based Supply Chain explores innovations in the adoption and integration of responsible AI solutions in supply chains It examines the ecological and social perspectives that drive supply chain technology and manufacturing improvements This book covers topics such as circular economy risk management and sustainability and is a useful resource for business owners ecologists computer engineers academicians data scientists and researchers

ECCWS2015-Proceedings of the 14th European Conference on Cyber Warfare and Security 2015 Dr Nasser Abouzakhar, 2015-07-01 Complete proceedings of the 14th European Conference on Cyber Warfare and Security Hatfield UK Published by Academic Conferences and Publishing International Limited **Pesticide residues**

in food - 2019: toxicological evaluations / Extra Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Core Assessment Group on Pesticide Residues, Gatineau, Canada, 7-17 May 2019 ,2021-07-16 *2024-25 For All Competitive Examinations Computer Chapter-wise Solved Papers* YCT

Expert Team , 2024 25 For All Competitive Examinations Computer Chapter wise Solved Papers 592 1095 E This book contains 1198 sets of solved papers and 8929 objective type questions with detailed analytical explanation and certified answer key **Water-supply Paper** ,1910 *Sessional Papers* ,1899 Report of the Dominion fishery commission on the fisheries of the province of Ontario 1893 issued as vol 26 no 7 supplement **Handbook of Research on Digital**

Transformation Management and Tools Pettinger, Richard,Gupta, Brij B.,Rojas, Alexandru,Cozmiuc, Diana,2022-06-30 Advances in digital technologies continue to impact all areas of life including the business sector Digital transformation is ascertained to usher in the digitalized economy and involves new concepts and management tools that must be considered in the context of management science and practice For business leaders to ensure their companies remain competitive and relevant it is essential for them to utilize these innovative technologies and strategies The Handbook of Research on Digital Transformation Management and Tools highlights new digital concepts within management such as digitalization and digital disruption and addresses the paradigm shift in management science incurred by the digital transformation towards the digitalized economy Covering a range of important topics such as cultural economy online consumer behavior sustainability and social media this major reference work is crucial for managers business owners researchers scholars academicians practitioners instructors and students Applying Nanotechnology for Environmental Sustainability Joo, Sung Hee,2016-08-04 This title is an IGI Global Core Reference for 2019 as it was edited by an award winning scholar Dr Sung Hee Joo from the University of Miami USA addressing the applications of nanomaterials in the field of environmental conservation and sustainability Building upon her previous studies conducted at Yale University USA this publication brings together over 25 experts from prominent institutions and research facilities including NASA Kennedy Space Center University of Virginia United States Environmental Protection Agency and more Applying Nanotechnology for Environmental Sustainability addresses the applications of nanomaterials in the field of environmental conservation and sustainability and analyzes the potential risks associated with their use It elucidates the scientific concepts and emerging technologies in nanoscience and nanotoxicity by offering a wide range of innovative topics and reviews regarding its use This publication is essential for environmental engineers researchers consultants students regulators and professionals in the field of nanotechnology

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shaft splines and serrations are ridges or teeth type keys that are an integral part of the shaft that mesh with grooves in a mating hub to transfer torque and rotational motion for example a bevel gear mounted on a shaft might use a male shaft spline that matches the female spline on the gear as shown below see more

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although they look like gears splines only transmit torque and rotation on the same axis they are used mainly for the following reasons 1 mechanical transmission see more

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