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First/Second Semester B.E. Degree(CBCS)Examination

Basic Electronics

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

Module-1

1.
 - a. Define following diode parameters:
 - i) PIV
 - ii) Knee voltage
 - iii) Dynamic resistance. (06 Marks)
 - b. With neat circuit diagram and waveforms, explain the working of a half wave rectifier. (06 Marks)
 - c. Draw common emitter circuit and sketch the input and output characteristics. Also explain operating regions by indicating them on characteristics curve. (04 Marks)

OR

2.
 - a. Explain zener diode voltage regulator circuit with no load and with load. (06 Marks)
 - b. The i/p to the Full wave rectifier is $v(t) = 200 \sin 50t$. If R_L is $1k\Omega$ and forward resistance of diode is 50Ω , find:
 - i) D.C current through the circuit
 - ii) The A.C (rms) value of current through the circuit
 - iii) The D.C output voltage
 - iv) The A.C power input
 - v) The D.C power output
 - vi) Rectifier efficiency. (06 Marks)
 - c. Derive the relationship between α and β . Calculate the value of I_c , I_e for a transistor that has $\alpha = 0.98$ and $I_b = 100\mu A$. (04 Marks)

Module-2

3.
 - a. What is a Dc load line? Explain Base biased method with necessary equations. (05 Marks)
 - b. Explain the characteristics of an Ideal Op-amp. Mention two applications of Op-Amp. (06 Marks)
 - c. With a neat circuit diagram, explain the Voltage Divider Bias circuit using approximate analysis. (05 Marks)

OR

4.
 - a. Design the voltage divider bias circuit to operate from 12 V supply. The bias conditions are $V_{CE}=3V$, $V_E=5V$, and $I_c = 1mA$. (05 Marks)
 - b. Derive the expression of 3 input summing amplifier. (05 Marks)
 - c. Explain voltage follower with neat circuit and necessary equations. (06 Marks)

Module-3

5.
 - a. Convert $(1101101)_2 = (\quad)_{10}$ and $(69)_{10} = (\quad)_2$. (04 Marks)
 - b. Convert $(1010111011110101)_2 = (\quad)_{10}$ and $(FA876)_{16} = (\quad)_2$. (04 Marks)
 - c. State and prove Demorgan's Theorem. (08 Marks)

Electronic Question Paper 2014 Trade Theory

**Sofia Ceppi, Esther David, Vedran
Podobnik, Valentin Robu, Onn
Shehory, Sebastian Stein, Ioannis A.
Vetsikas**

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Urbanisation Economy and Modelling **Global Technology and Legal Theory** Guilherme Cintra Guimarães, 2019-06-05

The rise and spread of the Internet has accelerated the global flows of money technology and information that are increasingly perceived as a challenge to the traditional regulatory powers of nation states and the effectiveness of their constitutions. The acceleration of these flows poses new legal and political problems to their regulation and control as shown by recent conflicts between Google and the European Union (EU). This book investigates the transnational constitutional dimension of recent conflicts between Google and the EU in the areas of competition, taxation and human rights. More than a simple case study, it explores how the new conflicts originating from the worldwide expansion of the Internet economy are being dealt with by the institutional mechanisms available at the European level. The analysis of these conflicts exposes the tensions and contradictions between, on the one hand, legal and political systems that are limited by territory and, on the other hand, the inherently global functioning of the Internet. The EU's promising initiatives to extend the protection of privacy in cyberspace set the stage for a broader dialogue on constitutional problems related to the enforcement of fundamental rights and the legitimate exercise of power that are common to different legal orders of world society. Nevertheless, the different ways of dealing with the competition and fiscal aspects of the conflicts with Google also indicate the same limits that are generally attributed to the very project of European integration, showing that the constitutionalization of the economy tends to outpace the constitutionalization of politics. Providing a detailed account of the unfolding of these conflicts and their wider consequences to the future of the Internet, this book will appeal to scholars working in EU law, international law and constitutional law as well as those in the fields of political science and sociology. **Journal of Economic Literature**, 2014

Graduate Programs in Business, Education, Information Studies, Law & Social Work 2014 (Grad 6) Peterson's, 2013-12-20
Peterson's Graduate Programs in Business, Education, Information Studies, Law, Social Work 2014 contains comprehensive profiles of more than 11,000 graduate programs in disciplines such as accounting, finance, business administration, management, education, human resources, international business, law, library, information studies, marketing, social work, transportation, management and more. Up-to-date info collected through Peterson's Annual Survey of Graduate and Professional Institutions provides valuable data on degree offerings, professional accreditation, jointly offered degrees, part-time, evening, weekend programs, postbaccalaureate, distance degrees, faculty, students, requirements, expenses, financial support, faculty research and unit head and application contact information. There are helpful links to in-depth descriptions about a specific graduate program or department, faculty members and their research and more. Also find valuable articles on financial assistance, the graduate admissions process, advice for international and minority students and facts about accreditation with a current list of accrediting agencies. **Research Handbook on Electronic Commerce Law** John A. Rothchild, 2016-09-30
The steady growth of internet commerce over the past twenty years has given rise to a host of new legal issues in a broad range of fields. This authoritative Research Handbook comprises chapters by leading scholars which

will provide a solid foundation for newcomers to the subject and also offer exciting new insights that will further the understanding of e commerce experts Key topics covered include contracting payments intellectual property extraterritorial enforcement alternative dispute resolution social media consumer protection network neutrality online gambling domain name governance and privacy

Agent-Mediated Electronic Commerce. Designing Trading Strategies and Mechanisms for Electronic Markets Sofia Ceppi, Esther David, Vedran Podobnik, Valentin Robu, Onn Shehory, Sebastian Stein, Ioannis A. Vetsikas, 2014-11-15 This volume contains 12 thoroughly refereed and revised papers detailing recent advances in research on designing trading agents and mechanisms for agent mediated e commerce They were originally presented at three events the Workshop on Agent Mediated Electronic Commerce AMEC 2013 co located with AAMAS 2013 in Saint Paul MN USA in May 2013 the Workshop on Trading Agent Design and Analysis TADA 2013 co located with AAAI 2013 in Bellevue WA USA in July 2013 and the Joint Workshop on Trading Agent Design and Analysis TADA 2014 and Agent Mediated Electronic Commerce AMEC 2014 co located with AAMAS 2014 in Paris France in May 2014 Given the breadth of research topics in this field the range of topics addressed in these papers is correspondingly broad These include the study of theoretical issues related to the design of interaction protocols and marketplaces the design and analysis of automated trading strategies used by individual agents and the deployment of such strategies in times as part of an entry to the trading agent competition

Cryptography and Information Security in the Balkans Berna Ors, Bart Preneel, 2015-07-15 This book constitutes revised selected papers from the First International Conference on Cryptography and Information Security in the Balkans Balkan Crypt Sec 2014 held in Istanbul Turkey in October 2014 The 15 papers presented in this volume were carefully reviewed and selected from 36 submissions They were organized in topical sections named symmetric cryptography cryptographic hardware cryptographic protocols and public key cryptography The book also contains one invited talk in full paper length

Agricultural Policy in the United States James L. Novak, Larry D. Sanders, James W. Pease, 2015-02-20 Agricultural Policy in the US Evolution and Economics traces the foundation of US agricultural policy from its colonial roots to the present using economic concepts to analyze and interpret political and economic consequences Ancient Roman food and agricultural reform English Corn Law and other historic examples of agricultural policies are included to show that agricultural policy has a long history and has been found necessary for governance throughout history Processes employed to develop US agricultural policies the structure and function of government that develops and implements agricultural policy and the specific evolution of policy from the early twentieth century to the Agricultural Act of 2014 are included Specific policies in past farm bills are detailed in order to track their evolution and economic effects This textbook includes arguments for and against common tools of US agricultural policy This debate continues today and can be seen in a gradual change over time from taxes and tariffs to risk management Information presented does not attempt to influence the readership towards a pro or con position but rather to present information to help the readers to understand the issues

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