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## Sixth Semester B.E. Degree Examination, Dec.2019/Jan.2020 Cryptography, Network Security and Cyber Laws

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. What do you mean by cyber attack? List and explain main motives of launching cyber attacks. (08 Marks)
- b. Using Extended Euclidean algorithm find the inverse of 12 modulo 79. (08 Marks)

OR

- 2 a. Design known plain text attack to obtain the key used in the Vigenere cipher. (08 Marks)
- b. Consider a Hill cipher  $m = 3$  (block size = 3) with key  $k$  shown below:

$$k = \begin{pmatrix} 25 & 3 & 7 \\ 5 & 9 & 21 \\ 11 & 8 & 13 \end{pmatrix}$$

- (i) What is the cipher text corresponding to the plaintext = (VOW)?
- (ii) What is the plain text corresponding to the ciphertext = (TQX)? (08 Marks)

### Module-2

- 3 a. List and explain RSA operations. (08 Marks)
- b. The modulus in a toy implementation of RSA is 143
  - (i) What is the smallest value of a valid encryption key and the corresponding decryption key?
  - (ii) For the computed encryption key and plaintext = 127, what is the corresponding ciphertext? (08 Marks)

OR

- 4 a. In what way are the properties of the cryptographic hash – the one way property and collision resistance relevant to the security provided by the MAC? Explain. (08 Marks)
- b. Consider the digital signature created using the Signer's private key operation but without the hash function i.e.,  $\text{sign}(m) = E_{A_P}(m)$ . Demonstrate how a forged signature may be created using this definition of a digital signature. (08 Marks)

### Module-3

- 5 a. What do you mean key management? Explain the fields of an X.509 certificate. (06 Marks)
- b. List and explain PKI Architectures. (06 Marks)
- c. Define Dictionary Attacks. Explain Attack types. (04 Marks)

OR

- 6 a. Design the Needham – Schroeder protocol. (06 Marks)
- b. Define Kerberos. Explain Kerberos message sequence. (05 Marks)
- c. Explain SSL Record Layer Protocol. (05 Marks)

# Cryptography Network Security And Cyber Law Semester Vi

**David G. Ries, Sharon D. Nelson, John  
W. Simek**



## **Cryptography Network Security And Cyber Law Semester Vi:**

Cyber Security and Cyber Law S. L. Soni, C. P. Bhargav, 2016      Decrypting the Encryption Debate National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Law Enforcement and Intelligence Access to Plaintext Information, 2018-05-07

Encryption protects information stored on smartphones laptops and other devices in some cases by default Encrypted communications are provided by widely used computing devices and services such as smartphones laptops and messaging applications that are used by hundreds of millions of users Individuals organizations and governments rely on encryption to counter threats from a wide range of actors including unsophisticated and sophisticated criminals foreign intelligence agencies and repressive governments Encryption on its own does not solve the challenge of providing effective security for data and systems but it is an important tool At the same time encryption is relied on by criminals to avoid investigation and prosecution including criminals who may unknowingly benefit from default settings as well as those who deliberately use encryption Thus encryption complicates law enforcement and intelligence investigations When communications are encrypted end to end intercepted messages cannot be understood When a smartphone is locked and encrypted the contents cannot be read if the phone is seized by investigators Decrypting the Encryption Debate reviews how encryption is used including its applications to cybersecurity its role in protecting privacy and civil liberties the needs of law enforcement and the intelligence community for information technical and policy options for accessing plaintext and the international landscape This book describes the context in which decisions about providing authorized government agencies access to the plaintext version of encrypted information would be made and identifies and characterizes possible mechanisms and alternative means of obtaining information      *Cryptography's Role in Securing the Information Society* National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee to Study National Cryptography Policy, 1996-10-29 For every opportunity presented by the information age there is an opening to invade the privacy and threaten the security of the nation U S businesses and citizens in their private lives The more information that is transmitted in computer readable form the more vulnerable we become to automated spying It s been estimated that some 10 billion words of computer readable data can be searched for as little as 1 Rival companies can glean proprietary secrets anti U S terrorists can research targets network hackers can do anything from charging purchases on someone else s credit card to accessing military installations With patience and persistence numerous pieces of data can be assembled into a revealing mosaic Cryptography s Role in Securing the Information Society addresses the urgent need for a strong national policy on cryptography that promotes and encourages the widespread use of this powerful tool for protecting of the information interests of individuals businesses and the nation as a whole while respecting legitimate national needs of law enforcement and intelligence for national security and foreign policy purposes This book presents a comprehensive

examination of cryptography the representation of messages in code and its transformation from a national security tool to a key component of the global information superhighway The committee enlarges the scope of policy options and offers specific conclusions and recommendations for decision makers Cryptography s Role in Securing the Information Society explores how all of us are affected by information security issues private companies and businesses law enforcement and other agencies people in their private lives This volume takes a realistic look at what cryptography can and cannot do and how its development has been shaped by the forces of supply and demand How can a business ensure that employees use encryption to protect proprietary data but not to conceal illegal actions Is encryption of voice traffic a serious threat to legitimate law enforcement wiretaps What is the systemic threat to the nation s information infrastructure These and other thought provoking questions are explored Cryptography s Role in Securing the Information Society provides a detailed review of the Escrowed Encryption Standard known informally as the Clipper chip proposal a federal cryptography standard for telephony promulgated in 1994 that raised nationwide controversy over its Big Brother implications The committee examines the strategy of export control over cryptography although this tool has been used for years in support of national security it is increasingly criticized by the vendors who are subject to federal export regulation The book also examines other less well known but nevertheless critical issues in national cryptography policy such as digital telephony and the interplay between international and national issues The themes of Cryptography s Role in Securing the Information Society are illustrated throughout with many examples some alarming and all instructive from the worlds of government and business as well as the international network of hackers This book will be of critical importance to everyone concerned about electronic security policymakers regulators attorneys security officials law enforcement agents business leaders information managers program developers privacy advocates and Internet users

**Cybercryptography: Applicable Cryptography for Cyberspace Security** Song Y. Yan, 2018-12-04 This book provides the basic theory techniques and algorithms of modern cryptography that are applicable to network and cyberspace security It consists of the following nine main chapters Chapter 1 provides the basic concepts and ideas of cyberspace and cyberspace security Chapters 2 and 3 provide an introduction to mathematical and computational preliminaries respectively Chapters 4 discusses the basic ideas and system of secret key cryptography whereas Chapters 5 6 and 7 discuss the basic ideas and systems of public key cryptography based on integer factorization discrete logarithms and elliptic curves respectively Quantum safe cryptography is presented in Chapter 8 and offensive cryptography particularly cryptovirology is covered in Chapter 9 This book can be used as a secondary text for final year undergraduate students and first year postgraduate students for courses in Computer Network and Cyberspace Security Researchers and practitioners working in cyberspace security and network security will also find this book useful as a reference

**EBOOK: Cryptography & Network Security** FOROUZAN, 2007-02-28 EBOOK Cryptography Network Security

Cryptography and Network Security, 2019

**Cryptography and Network Security** Prof. Bhushan

Trivedi, Savita Gandhi, Dhiren Pandit, 2021-09-22 Exploring techniques and tools and best practices used in the real world

**KEY FEATURES** Explore private and public key based solutions and their applications in the real world Learn about security protocols implemented at various TCP/IP stack layers Insight on types of ciphers their modes and implementation issues

**DESCRIPTION** Cryptography and Network Security teaches you everything about cryptography and how to make its best use for both network and internet security To begin with you will learn to explore security goals the architecture its complete mechanisms and the standard operational model You will learn some of the most commonly used terminologies in cryptography such as substitution and transposition While you learn the key concepts you will also explore the difference between symmetric and asymmetric ciphers block and stream ciphers and monoalphabetic and polyalphabetic ciphers This book also focuses on digital signatures and digital signing methods AES encryption processing public key algorithms and how to encrypt and generate MACs You will also learn about the most important real world protocol called Kerberos and see how public key certificates are deployed to solve public key related problems Real world protocols such as PGP S/MIME TLS and IPsec RFC 802.11i are also covered in detail

**WHAT YOU WILL LEARN** Describe and show real world connections of cryptography and applications of cryptography and secure hash functions How one can deploy User Authentication Digital Signatures and AES Encryption process How the real world protocols operate in practice and their theoretical implications Describe different types of ciphers exploit their modes for solving problems and finding their implementation issues in system security Explore transport layer security IP security and wireless security

**WHO THIS BOOK IS FOR** This book is for security professionals network engineers IT managers students and teachers who are interested in learning Cryptography and Network Security

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**Cyber Law, Privacy, and Security** Information Resources Management Association, 2019 The internet is established in most households worldwide and used for entertainment purposes shopping social networking business activities banking telemedicine and more As more individuals and businesses use this essential tool to connect with each other and consumers more private data is exposed to criminals ready to exploit it for their gain Thus it is essential to continue discussions involving policies that regulate and monitor these activities and anticipate new laws that should be implemented in order to protect users

**Cyber Law Privacy and Security Concepts Methodologies Tools and Applications** examines current internet and data protection laws and their impact on user experience and cybercrime and explores the need for further policies that protect user identities

data and privacy It also offers the latest methodologies and applications in the areas of digital security and threats Highlighting a range of topics such as online privacy and security hacking and online threat protection this multi volume book is ideally designed for IT specialists administrators policymakers researchers academicians and upper level students

**Cyber Law ,      Advancements in Global Cyber Security Laws and Regulations** Shahid M Shahidullah,Zina McGee,Carla Miller Coates,2021-09-24 The arrival of the information age and the expansion of digital revolution from the 1990s brought an entirely unique set of crimes and criminality in the modern world described as cybercrimes One of the major policy concerns in almost all countries of the world today is the control and containment of cybercrimes Cybercrimes challenge the very core of societal growth security and governance and the growth and organization of almost all aspects of modern societies are centered on the use of computers and the internet The criminal use of the computer and the internet can bring an unprecedented degree of harm and destruction not just in the progress but also in the very continuity and survival of modern digital civilization The new brave world of hyper connectivity is bringing a new age of social and cultural disorder misinformation confusion and convulsions Recent years have seen in almost all countries of the world the growth of new laws regulations and institutions to secure the internet and save the world from the destructions of cybercrime In the emerging field of cybersecurity there is now a compelling need to understand the global landscape of cybersecurity laws and regulations Advancements in Global Cyber Security Laws and Regulations focuses on global cybersecurity laws and regulations in some of the major countries and regions including the United States Europe India the Middle East and the African and Pacific regions Issues such as global regulations global regimes and global governance of the internet are covered alongside legal issues related to digital evidence computer forensics and cyber prosecution and convictions This book is ideally intended for professionals digital crime experts security analysts IT consultants cybersecurity and cybercrime researchers leaders policymakers government officials practitioners stakeholders researchers academicians and students interested in how cybersecurity is legally defined and conceptualized and how cybercrimes are prosecuted and adjudicated in different countries and cultures      Cryptography and Network Security: ITL ESL,2012 Cryptography and Network Security is designed as quick reference guide for important undergraduate computer courses The organized and accessible format of this book allows students to learn the important concepts in an easy to understand question      **CRYPTOGRAPHY AND NETWORK SECURITY** GUPTA, PRAKASH C.,2014-11-01 The book is intended for the undergraduate and postgraduate students of computer science and engineering and information technology and the students of master of computer applications The purpose of this book is to introduce this subject as a comprehensive text which is self contained and covers all the aspects of network security Each chapter is divided into sections and subsections to facilitate design of the curriculum as per the academic needs The text contains numerous examples and illustrations that enhance conceptual clarity Each chapter has set of problems at the end of chapter that inspire the reader to test his understanding of the subject Answers to

most of the problems are given at the end of the book Key Features The subject matter is illustrated with about 200 figures and numerous examples at every stage of learning The list of recommended books technical articles and standards is included chapter wise at the end of the book An exhaustive glossary and a list of frequently used acronyms are also given The book is based on the latest versions of the protocols TLS IKE IPsec S MIME Kerberos X 509 etc      *Theory and Practice of Cryptography and Network Security Protocols and Technologies* Jaydip Sen,2013-07-17 In an age of explosive worldwide growth of electronic data storage and communications effective protection of information has become a critical requirement When used in coordination with other tools for ensuring information security cryptography in all of its applications including data confidentiality data integrity and user authentication is a most powerful tool for protecting information This book presents a collection of research work in the field of cryptography It discusses some of the critical challenges that are being faced by the current computing world and also describes some mechanisms to defend against these challenges It is a valuable source of knowledge for researchers engineers graduate and doctoral students working in the field of cryptography It will also be useful for faculty members of graduate schools and universities      *Cryptology and Network Security* Jan Camenisch,Panos Papadimitratos,2018-09-21 This book constitutes the refereed proceedings of the 17th International Conference on Cryptology and Network Security CANS 2018 held in Naples Italy in September October 2018 The 26 full papers were carefully reviewed and selected from 79 submissions The papers are organized in the following topical sections privacy Internet misbehavior and protection malware symmetric key cryptography signatures cryptanalysis cryptographic primitives and cryptographic protocols      **Cryptology and Network Security** Stephan Krenn,Haya Shulman,Serge Vaudenay,2020-12-07 This book constitutes the refereed proceedings of the 19th International Conference on Cryptology and Network Security CANS 2020 held in Vienna Austria in December 2020 The 30 full papers were carefully reviewed and selected from 118 submissions The papers focus on topics such as cybersecurity credentials elliptic curves payment systems privacy enhancing tools lightweight cryptography and codes and lattices The conference was held virtually due to the COVID 19 pandemic      *Cryptography and Network Security* ,2025      **Cryptography And Network Security: Principles And Practices 4Th Ed.** William Stallings,2007      *Cryptography and Network Security* Dr.S.Bose,Dr.P.Vijaykumar,2016 This book elaborates the basic and advanced concepts of cryptography and network security issues It is user friendly since each chapter is modelled with several case studies and illustration All algorithms are explained with various algebraic structures

**MCS-215 Security and Cyber Laws** Gullybaba. Com Panel,2021-01-11 MCS 215 Security and Cyber Laws Block 1 Cyber Security Issues Cyber Security Issues and Challenges Cryptography Mechanisms Data Security and Management Block 2 Cyber Laws Regulation of Cyberspace An Overview Cyber crimes IPR issues in cyber space Total 5 Unsolved 3 Unsolved 2 Sample Paper I Sample Paper II Guess Paper I Guess Paper II June 2022      **Encryption Made Simple for Lawyers** David G. Ries,Sharon D. Nelson,John W. Simek,2015 Accomplished authors Sharon D Nelson David G Ries and John

W Simek will cover everything you need to know about encryption breaking down the myths of security and putting the power to protect sensitive data in your hands



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web the i2c module contains an independent i2c master logic and a i2c slave logic which generates interrupts based on their events in the multi master systems the user software is simply partitioned into the master controller and the slave controller when the i2c master logic is active the slave logic also remains active detecting the

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web i2c module modes and features the i2c module provides the following operational modes and features master mode slave mode with byte nacking multi master mode dedicated receive and transmit buffers up to four dedicated slave address registers 1

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web the i2c master is byte oriented and interrupt based the number of interrupts generated is kept at a minimum by automatic handling of most incidents the software driver complexity and code size are reduced by auto triggering of operations and a special smart mode which can be enabled by the smart mode enable bit in the control b register

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web mar 4 2022 sam sercom i2c master driver copyright c 2012 2018 microchip technology inc and its subsidiaries include i2c common h include sercom h include pinmux h include sercom interrupt h define pinmux default 0

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web this example shows how the microcontroller configured in i2c host mode writes to and reads data from an mcp23008 8 bit i2c i/o expander client device addressed in 7 bit mode using interrupts

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web 1 i2c specification 2 i2c module overview 3 interrupts for address match transmit buffer empty receive buffer full bus time out data byte count acknowledge and not acknowledge 4 i2c master mode operation 5 bus free time 6 master mode configuration and operation 7 master mode transmission 8 master mode reception 9

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web control of the i2c bus may be taken when the p bit is set or the bus is idle in firmware controlled master mode user code conducts all i2c bus operations based on start and stop bit condition detection start and stop condition detection is

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web bidirectional i2c stands for inter integrated circuit communications i2c is implemented in the picmicro by a hardware module called the master synchronous serial port known as the mssp module

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web c bus is a two wire serial bus with multiple possible masters and multiple possible slaves connected to each other through two wires the two wires consists of a clock line scl and a data line sda with both lines being bidirectional

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web getting started with i2c using mssp on pic18 introduction author filip manole microchip technology inc the approach in implementing the i2c communication protocol is different among the pic18f device family of microcontrollers while the pic18k40 and pic18q10 product families have a master synchronous serial port

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web feb 13 2019 i2c master mode introduction author christopher best microchip technology inc inter integrated circuit more commonly referred to as i2c is a synchronous two wire bidirectional serial communications bus the i2c module can be used to communicate with other ic compatible eeproms display drivers sensors or

i2c communication hardware protocol acceleration 8 bit pic - Jul 23 2022

web nov 7 2016 ds90003159b page 2 2017 microchip technology inc i2c protocol overview the i2c module follows the phillips i2c specification the module provides a bidirectional master slave synchronous interface between the pic microcontroller and other i2c supported devices these devices are connected via a two wire serial bus

using the mssp in i2c slave mode microchip technology - Oct 26 2022

web the master synchronous serial port mssp is an integrated serial communications module the mssp contains two sub modules spi serial peripheral interface i2c inter integrated circuit the inter integrated circuit commonly referred to as i2c is a synchronous two wire bidirectional serial communications bus

**section 24 inter integrated circuit i2c microchip technology** - May 01 2023

web jun 23 2016 key features of the i2c module include the following independent master and slave logic multi master support which prevents message losses in arbitration detects 7 bit and 10 bit device addresses with configurable address masking in slave mode detects general call addresses as defined in the i2c protocol automatic sclx clock

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web the i2c bus is a multi master serial data communication bus microcontrollers communicate in a master slave

environment where the master devices initiate the communication and the devices are selected through addressing i2c operates with one or more master devices and one or more slave devices

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