

6. Previous Question Papers

 NARSIMHA REDDY ENGINEERING COLLEGE UGC AUTONOMOUS INSTITUTION Maisamaguda (V), Kompally - 500100, Secunderabad, Telangana State, India	Accredited by NBA & NAAC with 'A' Grade
	Approved by AICTE
	Permanently affiliated to JNTUH

CYBER SECURITY - 23CY601
Department of CSE (Cyber Security)

Code No: 156EY

R18**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, March - 2024****CYBER SECURITY****(Computer Science and Engineering – Cyber Security)****Time: 3 Hours****Max. Marks: 75****Note:** i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A**(25 Marks)**

- 1.a) List out Basic Cyber Security Concepts. [2]
- b) Write a short note on Harmful Acts in Cyber Security. [3]
- c) Write a short note on Cyber Forensics. [2]
- d) Explain briefly about Forensics Investigation. [3]
- e) What is a Cyber Crime? [2]
- f) Write a short note on Trends in Mobility. [3]
- g) Write a brief note on Cost of Cyber crimes. [2]
- h) Write a short note on Challenges of Social Computing. [3]
- i) List out Fundamental Concepts of Data Privacy. [2]
- j) Write a short note on Data Privacy in medical domain. [3]

PART – B**(50 Marks)**

- 2.a) Discuss in detail the Challenges and Constraints in Internet Governance.
- b) Explain in detail about Comprehensive Cyber Security Policy. [5+5]
- OR**
3. Write a detailed note on Cyber Threats and its types. [10]
- 4.a) Explain in detail about Cyber Security Regulations.
- b) Write a detailed note on Historical background of Cyber forensics. [5+5]
- OR**
- 5.a) Explain in detail about National Cyber Security Policy.
- b) Discuss in detail about Digital Forensics Science. [5+5]
- 6.a) Discuss about Proliferation of Mobile and Wireless Devices in detail.
- b) Explain in detail about Security Challenges Posed by Mobile Devices. [5+5]
- OR**
7. Write a detailed note on Organizational security Policies and Measures in Mobile Computing Era. [10]

8. Discuss in detail about Web Threats for Organizations. [10]
OR
9. Write a detailed note on Security and Privacy Implications for Organizations. [10]
10. What is e-mail Spoofing? Take an example of the same and explain it. [10]
OR
- 11.a) Discuss in detail about Data Linking and Profiling.
b) Explain in detail about Financial Frauds in Cyber Domain. [5+5]

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Code No: 156EY

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, August/September - 2024

CYBER SECURITY

(Computer Science and Engineering – Cyber Security)

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A**(25 Marks)**

- 1.a) Define passive attacks. [2]
- b) What do you understand by a threat? List the types of Cyber Security threats. [3]
- c) What is the difference between cyber forensics and digital forensics? [2]
- d) List various techniques used in cyber forensic investigation? [3]
- e) Define Jailbreaking and Rooting techniques in mobile security threats. [2]
- f) Mention the elements of credit card frauds. [3]
- g) Why there is a need to include mobile devices in the security policy? [2]
- h) Give the importance of keeping security patches and viruses signatures up to date. [3]
- i) Define data privacy attack. [2]
- j) Write the importance of privacy in medical field. [3]

PART – B**(50 Marks)**

- 2.a) What is vulnerability in Cyber Security? How do attackers use vulnerabilities to attack a system? [5+5]
- b) Differentiate software attacks and hardware attacks in detail. [5+5]
- OR**
- 3.a) What is CIA triad? Explain it in detail. [5+5]
- b) Write the importance of building a comprehensive Cyber Security policy. [5+5]
- OR**
- 4.a) What do you understand Cyber Security Regulations? Why they are important? [5+5]
- b) Explain the process of forensics analysis of an email. [5+5]
- OR**
- 5.a) Describe the process of collecting digital evidences. Mention the importance of digital evidences. [5+5]
- b) Illustrate Digital Forensics lifecycle in detail. [5+5]
- OR**
- 6.a) What do you understand by trends in mobility? Explain the types of mobility and its implication. [5+5]
- b) Describe the various security challenges posed by mobile devices. [5+5]

OR

- 7.a) How to secure mobile devices from cybercrime? Explain the importance of registry settings of mobile devices.
- b) Discuss the importance of organizational security policies and measures in Mobile Computing era. [5+5]
- 8.a) Discuss the types of web threats that an organization may encounter.
- b) Describe the security risks and perils for an organization for social media marketing. [5+5]
- OR
- 9.a) What do you understand by social computing? Discuss its associated challenges for an organization.
- b) Mention the best practices that can be followed by an organization for the use of social media marketing tools. [5+5]
- 10.a) Write a short note on privacy policy language.
- b) Discuss an Indian case of Intellectual Property crime. [5+5]
- OR
- 11.a) What is data profiling? Describe the four general methods of profiling.
- b) Discuss any one case of e-mail spoofing in India. [5+5]

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Aug-2024

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Code No: 156EY

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, July - 2023

CYBER SECURITY

(Computer Science and Engineering – Cyber Security)

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A**(25 Marks)**

- 1.a) Who are called computer criminals? [2]
- b) What is cybercrime? Explain. [3]
- c) What is digital evidence? [2]
- d) Explain national cyber security policy. [3]
- e) What are the challenges faced in securing mobile devices? [2]
- f) What is Authentication service security? Explain. [3]
- g) What is social media marketing? [2]
- h) What is the cost of cyber crimes? Explain. [3]
- i) What are data privacy attacks? [2]
- j) What is Data linking and profiling? [3]

PART – B**(50 Marks)**

- 2.a) Differentiate between active attacks and passive attacks.
- b) What is Internet Governance? Discuss its challenges and constraints. [5+5]

OR

- 3.a) What are the differences between software attacks and hardware attacks?
- b) Discuss in detail about the policies devised for cyber security. [5+5]

- 4.a) What is the need for computer forensics? Explain.
- b) With a neat sketch, explain digital forensics life cycle. [5+5]

OR

- 5.a) What are the challenges in computer forensics? Discuss.
- b) Explain the cyber security regulations. [5+5]

- 6.a) What is the use of registry settings in mobile devices? Discuss.
- b) List different types of attacks that can be done on Mobile/Cell phones and explain. [5+5]

OR

- 7.a) Write about different types of credit card frauds and explain its consequences.
- b) Discuss the organizational security policies and measures taken for mobile computing. [5+5]

- 8.a) What are the security risks for social media marketing? Discuss.
b) Explain about social computing and the associated challenges for the organizations. [5+5]

OR

- 9.a) List the web threats for the organizations and their consequences.
b) What are the Intellectual property rights issues of Cyber security? Discuss. [5+5]

- 10.a) Explain the basic data privacy concepts.
b) Discuss about the Indian Case of online Gambling. [5+5]

OR

- 11.a) List and explain different privacy policy languages and their significance.
b) Explain an Indian Case of Intellectual Property Crime. [5+5]

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Code No: 158AQ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech IV Year II Semester Examinations, June - 2024

CYBER FORENSICS

(Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A**(25 Marks)**

- 1.a) Define Internet spawn's crime. [2]
- b) What are the primary ways in which computers facilitate criminal activities? [3]
- c) What is qualified forensic? [2]
- d) What are the different methods of forensic duplication used in computer forensics? [3]
- e) Determine the data collection methods. [2]
- f) What is the standard procedure used for network forensics? [3]
- g) Define Email servers. [2]
- h) What are the different components found inside a Mobile device? [3]
- i) Define virtual machine. [2]
- j) List the general tasks investigators perform while working with Digital Evidence. [3]

PART – B**(50 Marks)**

2. Describe the challenges law enforcement agencies face in combating cybercrimes. [10]
- OR
3. List and explain the various steps and activities involved in initial response. [10]
4. Point out the features of Forensic Duplication and Investigation and also outline the problems and challenges forensic examiners face when preparing and processing investigations, including the ideas and questions they must consider. [10]
- OR
5. Explain the steps involved in collecting the volatile data from the windows system. [10]
6. What is Live Acquisition? How is it performed? Explain the steps in detail. [10]
- OR
7. Explain the following terms:
 - a) Packet sniffer
 - b) Order of volatility
 - c) Honeypot
 - d) Honeystick
 - e) DDoS.[2+2+2+2+2]

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Code No: 158AQ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, July/August - 2022

CYBER FORENSICS

(Common to CSE, IT)

Time: 3 Hours

Max.Marks:75

Answer any five questions
All questions carry equal marks

- 1.a) What is the computer roles in crimes?
b) What are the activities in initial response? [7+8]
2. Explain about the digital forensics. [15]
3. Explain about initial response and volatile data collection from windows system. [15]
4. Explain the forensic duplication tool requirements. [15]
- 5.a) Explain the validation of forensic data.
b) What are the procedures for network forensics? [8+7]
- 6.a) What are the computer forensic software tools?
b) Explain the role of the client-server in e-mail. [8+7]
7. Explain about the mobile device forensics. [15]
8. How to examine NTFS disks? [15]

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