

**DIRECTORATE OF DISTANCE EDUCATION
NALSAR UNIVERSITY OF LAW, HYDERABAD**

Advanced Diploma in Cyber Security & Data Protection Laws

Academic Year: 2023-2024

First Semester Repeat Examination (June, 2024)

Paper III - 1.1.3. Cyber Security Concepts and Cryptography

Duration of the Examination: 2 ½ hours

Total Marks : 50 marks

INSTRUCTIONS TO CANDIDATES

- a) Read the instructions carefully and adhere to the same.
 - b) Please mention your DDE ID No., date of the exam, name of the programme & subject on the Answer Sheet and the Additional Answer Sheets, if any.
 - c) The questions to be interpreted as given and no clarification can be sought from the Invigilator.
 - d) Clearly indicate the question numbers while answering them. Answers without question numbers / wrong question numbers will not be evaluated.
 - e) Write the answers clearly and neatly. Answers in illegible handwriting will not be taken into consideration.
 - f) Candidates are prohibited to carry phones or any other electronic devices, books, material etc. in the Examination Hall.
 - g) Copying is strictly prohibited and is considered as a serious academic misconduct and the University will take action as it deems fit.
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- 1. Define the concept of Penetration Testing with reference to Cyber Threats and Vulnerabilities, Demonstrate the methodologies employed for Penetration testing, enlist the objective of penetration testing and illustrate any five tools for Penetration testing. **(20 Marks)**
- 2. Explain different aspects of Cyber Security in E-Commerce with emphasis on E-Cash Threats with reference to your day to day usage of UPI Payment mode. **(10 Marks)**
- 3. Illustrate the usage of Digital Signature in the present digital world, explain different types of Digital Signatures and illustrate how digital signature works with an example? **(10 Marks)**
- 4. Explain how Intrusion Detection System (IDS) works and illustrate different types based on suspicion activities with an example of Healthcare system with reference to recent AIIMS Ransomware attack? **(10 Marks)**