



RAN-2411000901022007

BCA (Sem.- I) Examination November - 2025

Introduction To Cybersecurity And Information Security (Major- 105-01)

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) All questions are compulsory.
- (3) Figures to the right indicate full marks.

Seat No.:

Student's Signature

Q.1. (A) Answer The Following (ANY FIVE)

5

1. Which of the following is NOT a cloud service model?
 - A. Software as a Service (SaaS)
 - B. Platform as a Service (PaaS)
 - C. Network as a Service (NaaS)
 - D. Infrastructure as a Service (IaaS)
2. Which of the following is NOT a benefit of implementing an ISMS?
 - A. Protects sensitive data
 - B. Reduces downtime
 - C. Increases profit margins
 - D. Meets regulatory compliance
3. Which regulation focuses on protecting consumer data in the European Union?
 - A. HIPAA
 - B. GDPR
 - C. Sarbanes-Oxley Act
 - D. CCPA
4. What is the primary objective of an incident response plan?
 - A. To prevent future risks
 - B. To assess employee productivity
 - C. To detect, respond to, and limit the effects of a security event
 - D. To evaluate market trends
5. Which of the following is a major disadvantage of the Peer-to- Peer (P2P) network architecture?
 - A. High cost
 - B. Complex setup
 - C. Limited scalability
 - D. Increased security with each new peer
6. What is a common challenge in cloud security?
 - A. Increased physical access to servers
 - B. Misconfigurations leading to data vulnerabilities
 - C. Lack of encryption technologies
 - D. Limited data storage capabilities
7. Which of the following is NOT a subtype of cloud infrastructure deployment?
 - A. Public Cloud
 - B. Hybrid Cloud
 - C. Distributed Cloud
 - D. Private Cloud

Q.1. (B) ANSWER THE FOLLOWING. (Any Four)

8

1. What is IRP?
2. List out Application of Cryptography.
3. List out 4 Pillars of Cloud Security.
4. Write comparison of IDS with Firewalls.
5. What is ISMS?

- Q.2. A. Attempt the following:** **8**
1. Explain PKI in detail.
- OR**
1. Write a note on Asymmetric key algorithms.
- Q.2. B. Explain the different types of Cryptographic algorithms. How do they ensure data security and integrity?** **5**
- Q.3. Attempt Any Two** **12**
- A. Explain Risk Assessment in detail.
 - B. Explain Cloud Security in detail.
 - C. Explain Digital Signature in brief.
- Q.4. Short note on any two** **12**
- A. Explain IoT Security in the current trends in cybersecurity.
 - B. Explain Best practices for Securing Wireless Networks.
 - C. Explain ISP.
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