



(c) applying firewalls

(d) All of the above

1-d. In RSA,  $\Phi(n) = \underline{\hspace{2cm}}$  in terms of p and q. (CO4) 1

(a)  $(p)/(q)$

(b)  $(p)(q)$

(c)  $(p-1)(q-1)$

(d)  $(p+1)(q+1)$

1-e. Name the term that gives a description of the lawful issues related to the use of communication or computer technology. 1

(a) Cyber Audit

(b) Law Enforcement

(c) Evidence records

(d) Cyber Law

**2. Attempt all parts:-**

2.a. Explain term Threat. 2

2.b. Give 2 challenges for Application Layer security 2

2.c. State any two security concerns in PDA? 2

2.d. What do you mean by masquerading? Explain with an example. (CO4) 2

2.e. What is OpenStack ? 2

**SECTION B**

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**3. Answer any three of the following:-**

3-a. Why are feasibility study and requirement gathering important in any software development model. 5

3-b. Explain all types of Firewall in detail. 5

3.c. Discuss Intrusion detection system and its types. What are components of intrusion detection system? IDS and CCTV play an important role in providing physical security to our information system. Discuss how? 5

3.d. What is digital signature? What are the requirements of digital signature system? List the security services provided by Digital Signature. 5

3.e. Explain the need for Information Security Policies. How to protect email messages? 5

**SECTION C**

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**4. Answer any one of the following:-**

- 4-a. Discuss active attacks in network with suitable example. (CO1) 4
- 4-b. Discuss all the phases involved in spiral model. 4

**5. Answer any one of the following:-**

- 5-a. How will you differentiate between NIDS and HIDS? How Intrusion detection system is different from Intrusion Prevention System? (CO2) 4
- 5-b. What is VPN and how does it provide security? (CO2) 4

**6. Answer any one of the following:-**

- 6-a. "Primary threats on the physical security is physical exposure to human beings". Comment on the statement. (CO3) 4
- 6-b. Define the term mobile security in detail? (CO3) 4

**7. Answer any one of the following:-**

- 7-a. Explain various key aspects in maintaining cloud security. (CO4) 4
- 7-b. Explain importance of Hash functions? (CO4) 4

**8. Answer any one of the following:-**

- 8-a. What is cloud computing? Discuss all cloud deployment models. 4
- 8-b. Explain the term IoT. Take an example to discuss how has it changed current lifestyle. 4

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