

Lib - 23/5/25 (EVE) R.M.V.2

Exam Code: 323502
(30)

Paper Code: 2285

Programme: Post Graduate Diploma in Computer Applications
Semester-II

Course Title: Introduction to Cyber Security

Course Code: PCAL-2111 (Opt-I) ✓

Time Allowed: 3 Hours

Max Marks: 70

Note: Attempt ~~any~~ five questions. Each question carries equal (14) marks. Candidate are required to attempt at least one question from each section and fifth question can be attempted from any section.

Section A

1. What do you understand by the term Cybercrime and Information Security? Explain the pillars of Information Security.
2. Write a note on:
 - a. Antivirus
 - b. Two steps authentication

Section B

3. Explain the following in detail:
 - a. Smartphone Security
 - b. Tips and practices to safe social networking account

4. a. Explain Cyber Security Incident Handling and Cyber Security Assurance in detail?
- b. What are the basic security tips for windows?

Section C

5. What do you mean by mobile banking security and security for Debit and credit card? Write the steps to implement mobile banking security and UPI Security?
6. What is social engineering? Explain types of social engineering in detail.

Section D

7. Explain the Sections of IT Act dealing with security?
8. Write a note on:
 - a. Hackers Attacker countermeasures
 - b. Web Application Security

Exam Code: 323502
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Paper Code: 2286

Programme: Post Graduate Diploma in Computer Applications
Semester-II

Course Title: Network Concepts

Course Code: PCAL-2112

Time Allowed: 3 Hours

Max Marks: 70

Note: Attempt five questions, selecting one question from each section. The fifth question may be attempted from any Section. Each question carry equal 16 marks.

Section-A

1. Explain TCP/IP Model along with functionalities of all its layers.
2. Explain:-
 - a) MAN
 - b) Elements of communication

Section -B

3. Explain various guided transmission media used for network communication.
4. What do you mean by modem? How it works? Explain its types in detail.

Section C

5. What do you mean by switching? Explain all its types.
6. Explain:-
 - a) Checksum
 - b) Flow control in data link layer

Section D

7.
 - a) Explain various sections of IP header in detail.
 - b) What do you mean by IPv6 addressing scheme? Explain various notations used for representing IPv6 addresses.
8.
 - a) What do you mean by cryptography? What are various components involved in cryptography?
 - b) What do you mean by symmetric key cryptography? Give examples.

Lib - 2015/25 (EVE) K.M.V.I

Exam Code: 323502

(30)

Paper Code: 2287

**Programme: Post Graduate Diploma in Computer Applications
Semester-II**

Course Title: Database Management System

Course Code: PCAL-2113

Time Allowed: 3 Hours

Max Marks: 70

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any Section. Each question carries 14 marks.

Section-A

1. What is DBMS & Explain with its Architecture Design.
2. What is Normalization, What are different types of Normalization Why its Important for Data.

Section-B

3. Explain Following with their roles in DBMS with Example.
 1. DDL Statement
 2. DML Statement
 3. DCL Statement
4. a) What are various datatypes supported by Database ?
b).What Transaction Control Language in Database, how we can recover the lost data in database.

Section-C

5. Explain Following Functions in Database with Query statement example.
 - a) Number Functions
 - b) Character Function
 - c) Date Function
 - d) Conversion Function
6. a) Why we use joins in database. Explains Join methods with Example.
b) Explain Security in database with the help of Views with example.

Section- D

7. a) Difference between SQL and PL/SQL.
b) How Variable & Constants in Oracle can be defined?
8. Explain role of control statement in DBMS, Explain with the help of Example.