

H.T No:

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R22

Course Code: B4A3303



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

M.Tech II Semester Regular Examinations September-2023

Course Name: **DISTRIBUTED SYSTEMS**

(CSC)

Date: 04.09.2023 FN

Time: 3 hours

Max.Marks: 60

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries ONE mark.

10x1=10M

1. List the Disadvantages of Distributed Systems. 1 M
2. What are the two methods of information in IPC? 1 M
3. Write the difference between process and threads. 1 M
4. List out the file accessing models. 1 M
5. Give the limitations of Napster. 1 M
6. What is clock drift? 1 M
7. What is deadlock? 1 M
8. Write any advantages of Replication? 1 M
9. List out security techniques. 1 M
10. Differentiate CORBA RMI and CORBA services. 1 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Discuss about how Remote Method Invocation taking place in distributed system? 10M
- OR**
11. B). Discuss about different types of distributed computing models with neat diagrams. 10M
12. A). Explain the threading models in detail. Give advantages and disadvantages of each model. 10M
- OR**
12. B). Discuss the various ways of semantics used for sharing the files. 10M
13. A). Demonstrate Peer to Peer systems. 10M
- OR**
13. B). How to achieve mutual exclusion in the distributed system? Explain using algorithms and compare the algorithms. 10M
14. A). Explain two-phase commit protocol? In the two-phase commit protocol, why can blocking never be completely eliminated, even when the participant elect a new coordinator? 10M
- OR**
14. B). Discuss the probe based distributed algorithm for deadlock detection in a distributed system. What are the main advantages of this algorithm over WFG based distributed algorithm? 10M
15. A). Explain the different types of client-centric memory consistency models with examples. 10M
- OR**
15. B). Give an account on CORBA services. 10M

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Course Code: B4A3304



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

M.Tech II Semester Regular Examinations September-2023

Course Name: **WEB & DATABASE SECURITY**
(CSC)

Date: 06.09.2023 FN

Time: 3 hours

Max.Marks: 60

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries ONE mark.

10x1=10M

1. What is SSL? 1 M
2. Describe the Roles of Cryptography. 1 M
3. Write the protocols of password sniffers. 1 M
4. Define DDOS. 1 M
5. What is snowflake schema? 1 M
6. List out the issues in database issues in Trust management. 1 M
7. What is Database watermarking give one example? 1 M
8. Define recovery in data processing systems. 1 M
9. Write about LBAC system. 1 M
10. What is the unified index scheme? 1 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). i) Discuss three important primary web security problems with an example. 5M
ii) Discuss about Risk Analysis. 5M
- OR**
11. B). Explain Digital Identification Techniques with an example. 10M
12. A). Demonstrate Privacy-Protecting Techniques. 10M
- OR**
12. B). i) Discuss any five physical security methods for servers 5M
ii) What are the programming techniques are used to make web application more secure. 5M
13. A). Explain XML Access Control Models. 10M
- OR**
13. B). Define OLAP Data Cubes and explain Securing OLAP Data Cubes methods with examples. 10M
14. A). Explain Security Re-engineering Databases Techniques. 10M
- OR**
14. B). Discuss about current abilities of Hippocratic data bases 10M
15. A). Explain Generic Bayesian Privacy Model with an example. 10M
- OR**
15. B). Demonstrate the Privacy Policies in a Mobile Environment. 10M

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R22

Course Code: B4A3408



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

M.Tech II Semester Regular Examinations September-2023

Course Name: **CLOUD SECURITY**

(CSC)

Date: 08.09.2023 FN

Time: 3 hours

Max.Marks: 60

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries ONE mark.

10x1=10M

1. Define Cloud Computing. 1 M
2. Extract the benefits of Cloud Security. 1 M
3. What are the goals in Cloud Security? 1 M
4. Classify Cloud Security Issues. 1 M
5. What are threat models in cloud security? 1 M
6. Compare Attack surfaces with attack scenarios. 1 M
7. Identify the Rising Security Threats. 1 M
8. What is meant by data security? 1 M
9. Name the Security Concerns of Cloud Operating Models. 1 M
10. Why Identity Authentication required in Cloud Security? 1 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Explain about different cloud deployment models in cloud computing. 10M
- OR**
11. B). Explain the Concepts of Cloud Security with an example. 10M
12. A). What are the five 5 security issues relating to cloud computing? 10M
- OR**
12. B). Explain about IaaS application security. 10M
13. A). Discuss the Taxonomy of Cloud Security Attacks. 10M
- OR**
13. B). Explain the VM- level attack tools and VMM security tools. 10M
14. A). Classify the methods of data security and storage? 10M
- OR**
14. B). Determine the importance of Provider Data and Its Security. 10M
15. A). Categorize the Security Using different Encryption Keys. 10M
- OR**
15. B). Identify the use of Security Management and write about availability management in the Cloud Computing. 10M

H.T No:

R22

Course Code: B4A3411



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

M.Tech II Semester Regular Examinations September-2023

Course Name: USER AUTHENTICATION TECHNIQUES
(Cyber Security)

Date: 11.09.2023 FN

Time: 3 hours

Max.Marks: 60

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries ONE mark.

10x1=10M

1. Differentiate Authentication versus Authorization. 1 M
2. What are the three factors of authentication? 1 M
3. How do smart cards help to protect privacy? 1 M
4. What problems do surveillance cameras create? 1 M
5. What is Iris Recognition? Which algorithm used for Iris Recognition? 1 M
6. What are the two types of voice recognition? 1 M
7. Define a Matching Algorithm. 1 M
8. Give an example for Authentication standard. 1 M
9. What is the Random Oracle Model? Why is it controversial? 1 M
10. What is the purpose of the Bloom filter? 1 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Define Authentication. Describe in Detail stages and steps of authentication. 10M
- OR**
11. B). Discuss Authentication Types in detail. 10M
12. A). What is a Proximity Sensor? Explain Classification of Proximity Sensors. 10M
- OR**
12. B). Explain Different Key Agreement Protocols. 10M
13. A). Explain Benefits of Biometrics compared to Traditional Authentication Methods 10M
- OR**
13. B). What is Fingerprint technology? Explain how Fingerprint Technology Works for Identification. 10M
14. A). Why are Performance Measures important? Explain How a ROC Curve Works? 10M
- OR**
14. B). What is Public Key Infrastructure? Explain about Kerberos in detail. 10M
15. A). How do you use BAN Logic? Discuss in detail Authentication protocols using BAN Logic. 10M
- OR**
15. B). What is Blockchain Authentication? Discuss Briefly Examples of Blockchain authentication. How does 2-Factor authentication work? 10M
