

Hall Ticket No:

Question Paper Code: 16MCA113

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

MCA III Year I Semester (R16) Supplementary End Semester Examinations – October 2020
(Regulations: R16)

CRYPTOGRAPHY & NETWORK SECURITY

Time: 3Hrs

Max Marks: 50

Attempt all the questions. All parts of the question must be answered in one place only.

In Q.no 1 to 5 answer either Part-A or B only

- Q.1(A) i. Explain about different types of cyber-attacks. 5M
ii. Compare and contrast the differences between tunnels versus transport mode. 5M
- OR**
- Q.1(B) i. Differentiate between secret versus public key cryptography. 4M
ii. What are the steps in SSL Handshake protocol? 6M
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- Q.2(A) i. How data protection is done in CCMP. 5M
ii. Explain how each key in 802.11 was derived. 5M
- OR**
- Q.2(B) With a diagram explain authentication and key agreement in GSM Networks 10M
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- Q.3(A) i. Explain about Dos and Ddos attacks. 5M
ii. Illustrate Access Control Matrix with an example. 5M
- OR**
- Q.3(B) i. What is SQL injection? Illustrate with an example. 5M
ii. Explain about session hijacking and spoofing. 5M
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- Q.4(A) Explain clearly about botnets. 10M
- OR**
- Q.4(B) i. Explain the epidemic model for worm propagation. 5M
ii. What is a firewall? Write its features. 5M
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- Q.5(A) i. Explain clearly about anomaly based IDS. 5M
ii. Discuss how security is provided to web services. 5M
- OR**
- Q.5(B) Explain clearly how virus detection is performed using IDS. 10M

*** END***

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DATA WAREHOUSING AND DATA MINING

Time: 3Hrs

Max Marks: 50

Attempt all the questions. All parts of the question must be answered in one place only.
In Q.no 1 to 5 answer either Part-A or B only

Q.1(A) What is Data Mining? Explain the architecture of data mining. 10M

OR

Q.1(B) What is Data Pre-processing? Explain in detail about the following 10M
i) Data Cleaning
ii) Data integration

Q.2(A) Explain about the architecture of data warehouse with neat diagram. 10M

OR

Q.2(B) Explain about Star schema and Snowflake schema with the help of suitable diagrams. 10M

Q.3(A) Explain Naïve Bayes classification method. 10M

OR

Q.3(B) Describe the criteria for classifier accuracy. 10M

Q.4(A) What is outlier? Explain various methods for detecting outliers. 10M

OR

Q.4(B) Discuss the partitioning methods. 10M

Q.5(A) Discuss about the similarity search in Multimedia Mining. 10M

OR

Q.5(B) Discuss about Web mining. 10M

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