

Hall Ticket No:

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Question Paper Code: 16DMCA112

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE**

(UGC-AUTONOMOUS)

**MCA (2Yr) II Year I Semester (R16) Regular End Semester Examinations – Dec 2017**

(Regulations: R16)

**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 various characteristics of Data Mining? 10M

**OR**

Q.1(B) What is data preprocessing? How can we perform Data Cleaning? 10M

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Q.2(A) In detail explain the advance architecture of Data Mining? 10M

**OR**

Q.2(B) Explain about Bayesian classification algorithm. 10M

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Q.3(A) What is classification? Explain the process of measuring the classifier accuracy? 10M

**OR**

Q.3(B) What is a decision tree? Construct a decision tree based with the help of KDD? 10M

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Q.4(A) Explain various hierarchical methods for clustering? 10M

**OR**

Q.4(B) In detail explain K Means Algorithms? 10M

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Q.5(A) What is web mining? Explain the process of web mining? 10M

**OR**

Q.5(B) Explain spatial data mining and www? 10M

**\*\*\* END\*\*\***

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Question Paper Code: 16MCA113

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE**  
(UGC-AUTONOMOUS)  
**MCA (2Yr) II Year I Semester (R16) Regular End Semester Examinations – Dec 2017**  
(Regulations: R16)

**CRYPTOGRAPHY AND 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) Explain in detail about Passive attacks and Active Attacks. 10M
- OR**
- Q.1(B) i) Write a short note on IPSec Document 6M  
ii) Discuss about the steps of SSL handshake protocol. 4M
- 
- Q.2(A) Explain about Authentication and key Agreement in 802.11. 10M
- OR**
- Q.2(B) What is CCMP protocol? Explain about Encryption and Integrity security services of UMTS (3G). 10M
- 
- Q.3(A) Write a short note on 10M  
i) Pharming Attacks ii) Phishing Attacks
- OR**
- Q.3(B) Explain in detail about how access control is provided in Unix operating system 10M
- 
- Q.4(A) Discuss about various security measurements in Bluetooth. 10M
- OR**
- Q.4(B) Explain about botnets and its types. 10M
- 
- Q.5(A) i) Differentiate between prevention and detection. 4M  
ii) How DDoS attack will prevent and detect? Explain 6M
- OR**
- Q.5(B) What are the technologies uses for web service security? Explain in detail. 10M

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Hall Ticket No:

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Question Paper Code: 16MCA413

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE**  
(UGC-AUTONOMOUS)  
**MCA(2Yr) II Year I Semester (R16) Regular End Semester Examinations – Dec 2017**  
(Regulations: R16)

**MOBILE APPLICATION DEVELOPMENT USING ANDROID**

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. What is JVM? How java language does provide platform independence? 4M  
ii. What is exception handling? Mention the type of exceptions .Write a java program to handle exception using try, catch and throws clauses? 6M
- OR**
- Q.1(B) What is interface? Explain interface concepts with programming example in Java. 10M
- 
- Q.2(A) i. Describe the life cycle of an Android activity with neat sketch. 5M  
ii. Explain the building blocks, intents and services with example. 5M
- OR**
- Q.2(B) What is meant by android interface? What are its types? How will you create an interface programmatically? 10M
- 
- Q.3(A) Define Content Providers. Explain how you will create a content provider for an android application to insert data and to delete data. 10M
- OR**
- Q.3(B) i. Write about Fragment Life Cycle with a neat diagram. 5M  
ii. How Fragments can be created dynamically? Give Example. 5M
- 
- Q.4(A) How will you create a broadcast receiver in Android? Explain in detail. 10M
- OR**
- Q.4(B) i. What is meant by an Adapter and mention its types. 3M  
ii. Write an android application program for ArrayAdapter. 7M
- 
- Q.5(A) List the different types of sensor devices supported by Android SDK and explain how to interpret sensor readings. 10M
- OR**
- Q.5(B) Write short notes on: i. Live Wallpaper 10M  
ii. Handlers

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Hall Ticket No:

Question Paper Code: 16MCA418

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE**  
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**MCA(2Yrs) II Year I Semester (R16) Regular End Semester Examinations – Dec 2017**  
(Regulations: R16)

**CLOUD INFRASTRUCTURE & SERVICES**

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) Write note on the following 10M
- i. Cloud
  - ii. On Demand self service
  - iii. Rapid Elasticity
  - iv. Measured services

OR

- Q.1(B) Discuss about the development of cloud computing 10M

- 
- Q.2(A) i. List cloud deployment models and describe Public cloud 10M  
ii. Compare different cloud service provider.

OR

- Q.2(B) i. Write a short note on Change Management Maturity Model (CMMM). 10M  
ii. What do you mean be Identity Management and Access Management?

- 
- Q.3(A) List cloud deployment models and describe Public cloud with neat diagram 10M

OR

- Q.3(B) Explain in brief P2V, V2V, V2P, P2P, D2C, C2C and C2D virtual machine conversions in VMM. 10M

- 
- Q.4(A) What are the minimum memory capacity and configurations in Cloud? 10M

OR

- Q.4(B) Explain the following 10M
- i. Tiering
  - ii. Raid
  - iii. File System

- 
- Q.5(A) What do you mean by Disaster recovery in cloud and how we can deal with it? 10M

OR

- Q.5(B) List and explain various cloud computing security challenges. 10M

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**MCA(2Yrs) II Year I Semester (R16) Regular End Semester Examinations – Dec 2017**

(Regulations: R16)

**INTERNET OF THINGS**

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 a generic machine-to-machine system solution.   | 5M    |
|           | ii) Write key application areas of machine-to-machine.   | 5M    |
| <b>OR</b> |  |       |
| Q.1(B)    | i) Explain IoT oriented stress analysis solution.  | 6M    |
|           | ii) Describe the comparison of main characteristics of M2M and IoT.  | 4M    |
| Q.2(A)    | i) Define IoT Value chain? Explain the information market place  | 1M+4M |
|           | ii) What is an information driven value chain for IoT? Explain it in market place                            | 1M+4M |
| <b>OR</b> |  |       |
| Q.2(B)    | Explain functional layers and capabilities of an IoT solution.   | 10M   |
| Q.3(A)    | i) Explain different M2M and IoT devices.  | 5M    |
|           | ii) What is gateway device? Write additional tasks of gateway devices.                                       | 1M+4M |
| <b>OR</b> |  |       |
| Q.3(B)    | i) What are distributed business processes? Explain them in IoT.   | 1M+4M |
|           | ii) Write essential characteristics, services and deployment models of cloud computing.                      | 5M    |
| Q.4(A)    | i) Explain ETSI M2M Service capabilities.  | 5M    |
|           | ii) What is IoT Reference model? Describe it.  | 1M+4M |
| <b>OR</b> |  |       |
| Q.4(B)    | i) What is aim of functional model of IoT? Describe it.  | 1M+4M |
|           | ii) What is IoT information model? Explain it with example.  | 1M+4M |
| Q.5(A)    | What is functional view for the IoT reference architecture? Explain it with neat diagram.                    | 2M+8M |
| <b>OR</b> |  |       |
| Q.5(B)    | i) What is information view of IoT? Describe it.   | 1M+3M |
|           | ii) Write definition and full form of SOCRADES? Explain SOCRADES integration architecture with neat diagram. | 2M+4M |

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**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE**

(UGC-AUTONOMOUS)

**MCA(2Yrs) II Year I Semester (R16) Regular End Semester Examinations – Dec 2017**

(Regulations: R16)

**MANAGEMENT OF SOFTWARE PROJECT****Time: 3Hrs****Max Marks: 50**

Attempt all the questions. All parts of the question must be answered in one place only.
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In Q.no 1 to 5 answer either Part-A or B only
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Q.1(A) Explain the competencies and responsibilities of a manager in software projects. 10M

**OR**

Q.1(B) Write notes on 5M  
 i) Software project management and its scope 5M  
 ii) Three pillars of project management

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Q.2(A) Give an overview of the process of project scope management. 10M

**OR**

Q.2(B) Explain the following: 5M  
 i) Variance analysis and decomposition 5M  
 ii) Creation of WBS structure

---

Q.3(A) Elaborate the tools, techniques and outputs of close procurements. 10M

**OR**

Q.3(B) Describe the processes required to purchase products from outside the project team. 10M

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Q.4(A) Explain in detail about communication management in software projects. 10M

**OR**

Q.4(B) Write short notes on: 5M  
 i) Dimensions of communication activity 5M  
 ii) Techniques of quality control

---

Q.5(A) Explain the importance of stakeholder management in software projects. 10M

**OR**

Q.5(B) Describe the processes in project integration management. 10M

**\*\*\* END\*\*\***