

Hall Ticket No:

Course Code: 14IMCA31T11

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

(UGC-AUTONOMOUS)

Direct 2<sup>nd</sup> Year MCA II Year I Semester Regular End Semester Examinations – Dec/Jan- 2015-16

(Regulations: R14)

**DATA MINING & WAREHOUSING**

Time: 3Hrs

Max Marks: 60

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

Q.1(I) Explain the three basic forms of data for mining applications with example in each. 12M

**OR**

Q.1(II) Explain in detail the major steps involved in data preprocessing. 12M

Q.2(I) What is Data Cube and explain all the three forms of multidimensional model with neat diagrams. 12M

**OR**

Q.2(II) Explain Apriori Algorithm for finding frequent item sets with an example. 12M

Q.3(I) What is Classification and explain how decision trees are used for classification. 12M

**OR**

Q.3(II) What is Back propagation and explain how does it work. 12M

Q.4(I) What is Clustering? Explain the two partitioning methods i.e., *k*-Means and *k*-Medoids. 12M

**OR**

Q.4(II) What are Outliers? Explain the three types of Outliers. 12M

Q.5(I) Explain Complex data types for mining. 12M

**OR**

Q.5(II) Write short notes on 12M

- a) Mining Text Data.
- b) Mining Web Data.

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Hall Ticket No:

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Course Code: 14IMCA31T12

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

(UGC-AUTONOMOUS)

Direct 2<sup>nd</sup> Year II Year I Semester (R14) Regular End Semester Examinations – Dec/Jan- 2015-16

(Regulations: R14)

**MOBILE APPLICATION DEVELOPMENT USING ANDROID**

Time: 3Hrs

Max Marks: 60

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

In Q.no 1 to 5 answer either I or II only

Q.1(I) List and explain various concepts of OOPs. 12M

OR

Q.1(II) Write the anatomy of the Android project. 12M

Q.2(I) What is the importance of Intent and write the procedure for navigation using Intent. 12M

OR

Q.2(II) What are various layouts in Android User Interface? Explain the differences between all the layouts. 12M

Q.3(I) Explain Fragment Life Cycle? Write an example for fragment? 12M

OR

Q.3(II) How structured data is handled in Android? Explain the process of handling it? 12M

Q.4(I) What is activity? Write about basic main activity? 12M

OR

Q.4(II) What is Broadcast receiver? Discuss about the creation and registration of broadcast receivers? 12M

Q.5(I) Write a detailed note on App Widgets? 12M

OR

Q.5(II) What is AsyncTask? Explain the usage of Async Task and Task Loader for networking? 12M

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Hall Ticket No:

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Course Code: 14IMCA31T13

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

(UGC-AUTONOMOUS)

Direct 2<sup>nd</sup> Year II Year I Semester Regular End Semester Examinations – Dec/Jan- 2015-16

(Regulations: R14)

**INFORMATION RETRIEVAL SYSTEM**

Time: 3Hrs

Max Marks: 60

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

- Q.1(I) Describe Objectives of Information Retrieval Systems in detail. 12M
- OR**
- Q.1(II) Explain searching capabilities of Querying with examples 12M
- 
- Q.2(I) Explain indexing process. 12M
- OR**
- Q.2(II) Discuss in detail n-gram data structure 12M
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- Q.3(I) Discuss hypertext linkages 12M
- OR**
- Q.3(II) Compare and contrast manual clustering and automatic term clustering 12M
- 
- Q.4(I) What are the problems with weighting schemes? Explain importance of Binding. 12M
- OR**
- Q.4(II) Explain the role of similarity measures in IRS. 12M
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- Q.5(I) Discuss about the techniques involved in software text search algorithms 12M
- OR**
- Q.5(II) What are the Measures used in system evaluation? Explain with an example. 12M

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(Regulations: R14)

**CLOUD INFRASTRUCTURE SERVICES**

Time: 3Hrs

Max Marks: 60

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

In Q.no 1 to 5 answer either I or II only

- Q.1(I) a. What are the basic characteristics of Cloud Computing? 7M  
b. Explain about the scalability in Cloud Computing? 5M
- OR**
- Q.1(II) a. What is hypervisor? What are the key benefits of implementing hypervisors? 7M  
b. Explain about the object storage in Cloud Computing. 5M
- 
- Q.2(I) a. What are the characteristics on which a cloud computing model should be selected for implementing and managing work load? 7M  
b. Explain various service level agreements. 7M
- OR**
- Q.2(II) a. Define a data center. What is the difference between traditional data center and cloud? 6M  
b. Explain how to provide data security in cloud? 6M
- 
- Q.3(I) a. Explain the benefits and limitations of public and private cloud deployment models. 6M  
b. Explain about the performance concepts in case of cloud computing. 6M
- OR**
- Q.3(II) a. What is the impact of configuration changes to the virtual environment? 6M  
b. Explain the following. 6M  
(1) Jumbo frames (2) Network latency (3) Hop count
- 
- Q.4(I) Write notes on the following.  
(a) Private cloud management 4M  
(b) Public cloud management 4M  
(c) Hybrid cloud management 4M
- OR**
- Q.4(II) a. What do you understand from VPN? What does a VPN consists of? 7M  
b. Write notes on tiring. 5M
- 
- Q.5(I) a. Explain in brief about Amazon Elastic Block Store (EBS). 6M  
b. Write short notes on Hadoop Distributed File System (HDFS). 6M
- OR**
- Q.5(II) a. What are the security challenges in Cloud Computing? 4M  
b. Explain the following. 8M  
(1) SAN (2) Cloud storage

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## MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

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Direct 2<sup>nd</sup> Year II Year I Semester Regular End Semester Examinations – Dec/Jan- 2015-16

(Regulations: R14)

### OBJECT ORIENTED ANALYSIS & DESIGN

Time: 3Hrs

Max Marks: 60

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

In Q.no 1 to 5 answer either I or II only

- |           |   |     |
|-----------|---|-----|
| Q.1(I)    | Explain a) Class Hierarchy<br>b) Encapsulation and Information hiding.  | 12M |
| <b>OR</b> |   |     |
| Q.1(II)   | Discuss Object Oriented System Development: A Usecase Driven Approach and Component based development.  | 12M |
|           |   |     |
| Q.2(I)    | a. Explain the Booch methodology in detail?<br>b. Why modeling is needed and what are the advantages of modeling.   | 12M |
| <b>OR</b> |   |     |
| Q.2(II)   | Explain in detail about dynamic modeling .  | 12M |
|           |   |     |
| Q.3(I)    | a. Explain about Usecase, Actor, Measurable values, In a system and transaction in Usecase model.<br>b. Draw Usecase diagram for online hospital management system. | 12M |
| <b>OR</b> |   |     |
| Q.3(II)   | Explain a) Association<br>b) Aggregation<br>c) Super and Subclass relationships.  | 12M |
|           |   |     |
| Q.4(I)    | a. How are forking and joining used in Activity diagrams? Give example.<br>b. What are swimlanes, explain with an Activity diagram.                                 | 12M |
| <b>OR</b> |   |     |
| Q.4(II)   | Discuss UML Deployment and Component diagram with suitable example?   | 12M |
|           |   |     |
| Q.5(I)    | a. State the guidelines for developing test plans?<br>b. Explain about Quality Assurance Test?  | 12M |
| <b>OR</b> |   |     |
| Q.5(II)   | Discuss the UML case study for Inventory control system.  | 12M |

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