

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

**MCA II Year II Semester (R14) Regular End Semester Examinations – May/June 2016**  
(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 Part-A or B only

Q.1(A) Write a note on Basic terms and characteristics of cloud. 12M

**OR**

Q.1(B) Explain in detail about Key Benefits of Implementing Hypervisors 12M

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Q.2(A) Explain how to manage workloads in cloud. 12M

**OR**

Q.2(B) Write short note on 12M

- i. Data transfer rate
- ii. Access time
- iii. Disk tuning

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Q.3(A) i. Differentiate public and private cloud. 6M

ii. Explain in detail how to analyze On-Premises vs. Off-Premises Hosting 6M  
Accountability and Responsibility Based on Delivery Models.

**OR**

Q.3(B) Explain in detail on management of a cloud. 12M

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Q.4(A) Define VPN. Explain importance of VPN in cloud. 12M

**OR**

Q.4(B) Enlist and Explain cloud hardware resources. 12M

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Q.5(A) Explain Cloud storage technology to maintain data in a system. 12M

**OR**

Q.5(B) Explain in detail on Cloud vs. SAN Storage 12M

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**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 Part-A or B only

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|-----------|--|------|
| Q.1(A)    | i. What are the Drawable resources of Android? Explain.                            | 6M   |
|           | ii. Discuss the control flow statements in Java with a simple example.             | 6M   |
| <b>OR</b> |  |      |
| Q.1(B)    | Discuss in detail the elements of Android stack with a neat diagram.               | 12M  |
| <hr/>     |  |      |
| Q.2(A)    | Write elaborately: The Status Activity Java Class of Android.                      | 12 M |
| <b>OR</b> |  |      |
| Q.2(B)    | i. What is meant by an Activity? Explain the Activity life cycle in detail.        | 6M   |
|           | ii. Define Services. Explain in detail about Content Providers and Services.       | 6M   |
| <hr/>     |  |      |
| Q.3(A)    | i. Explain fragment lifecycle.   | 6M   |
|           | ii. Discuss how to test the services.  | 6M   |
| <b>OR</b> |  |      |
| Q.3(B)    | i. How Fragments can be added while developing an android application dynamically. | 6M   |
|           | ii. Discuss the file system partitions of Android in detail.                       | 6M   |
| <hr/>     |  |      |
| Q.4(A)    | Write in detail about alarm and system services.                                   | 12M  |
| <b>OR</b> |  |      |
| Q.4(B)    | Explain in detail: Broadcast Receivers.  | 12M  |
| <hr/>     |  |      |
| Q.5(A)    | Explain about Live Wall Papers and Handlers in Android app Development.            | 12M  |
| <b>OR</b> |  |      |
| Q.5(B)    | Discuss Android application widgets.   | 12M  |

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

Hall Ticket No:

Question Paper Code: 14MCA22T14

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**DATA WAREHOUSING AND MINING**

**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 Part-A or B only**

Q.1(A) Explain the classification of Data Mining system. 12M

**OR**

Q.1(B) Explain the basic methods for Data Cleaning. 12M

Q.2(A) Explain the different types of OLAP servers with neat diagrams. 12M

**OR**

Q.2(B) What are the basic concepts of Associative Rule Mining? 12M

Q.3(A) Explain the issues regarding classification and prediction. 12M

**OR**

Q.3(B) Discuss about the Bayesian classification method. 12M

Q.4(A) Explain the different types of data in Cluster Analysis. 12M

**OR**

Q.4(B) Explain the Grid based Clustering Methods. 12M

Q.5(A) Describe the challenging issues regarding the construction and utilization of spatial data warehouse that facilitates. 12M

**OR**

Q.5(B) Explain briefly Mining text Databases 12M

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

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**WEB TECHNOLOGY THROUGH JAVA**

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 Part-A or B only

Q.1(A) Discuss about various advanced HTML tags. Create a resume of student using the needed HTML tags and CSS. 12M

**OR**

Q.1(B) Differentiate between XML DTD and Schema. Write a XML schema that describes the structure of ARTICLE data. Also, Write a XML document that confirms to created schema. 12M

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Q.2(A) Explain in detail about working of following protocols 12M  
i. TCP/IP ii. UDP iii. HTTP

**OR**

Q.2(B) Discuss about socket programming. Explain about connecting TCP/IP client socket with server socket. 12M

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Q.3(A) Explain the life cycle of servlet with an example program. 12M

**OR**

Q.3(B) Discuss about different session tracking method. Write a cookie to store the client data. 12M

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Q.4(A) Explain the components of JSP. Discuss about creating dynamic web page using JSP with an example. 12M

**OR**

Q.4(B) Explain the use of JavaBeans classes in JSP with examples. 12M

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Q.5(A) Write a JDBC program to retrieve the student details who are studying in 2<sup>nd</sup> year MCA. 12M

**OR**

Q.5(B) Write a program to accessing a database from a JSP Page. 12M

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