MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)
MCA (2Y) II Year I Semester (R16) Supplementary End Semester Examinations – June 2018
(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)	Explain the architecture of Data Mining and Data Ware housing?	10M
	OR	
Q.1(B)	Write about Data Integration and Data Cleaning?	10M
Q.2(A)	In detail explain the process of transferring data from data warehousing to data mining?	10M
	OR	
Q.2(B)	Explain various set mining methods?	10M
Q.3(A)	With neat diagram explain decision tree?	10M
	OR	
Q.3(B)	Write about prediction?	10M
Q.4(A)	Compare any 2 clustering algorithms and define the merits and de merits?	10M
	OR	
Q.4(B)	Write short notes on density based methods and grid based methods?	10M
Q.5(A)	Write about HITS Algorithm?	10M
	OR	
Q.5(B)	Explain the process of extracting the data from Multimedia data bases?	10M

*** END***

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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)	What is Thread? What are methods for creating Thread? Write a java program to create a thread using Runnable interface.	10M
	OR	
Q.1(B)	What is the role of package? Create a package "Arithmetic" with a class "operation" in it. The class "operation" is offering arithmetic service such as addition, multiplication, subtraction and division. Write a java program to test services offered by "Arithmetic" package.	10M
Q.2(A)	What are Services in Android? Write an example program to demonstrate the working procedure of services.	10M
	OR	
Q.2(B)	What are the different types of layout? How an android interface can be created using XML coding?	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)	Explain in detail: Broadcast Receivers in Android with example.	10M
	OR	
Q.4(B)	i. Write an android application to create a list using Arrayadapter and ListView control	5M
	ii. Write short notes on Broadcasting Intents.	5M
Q.5(A)	Write short notes on:	
	i. Accelerometer and Orientation Sensors.	5M
	ii. Sensor Event Class and Sensor Event Listener Interface.	5M
	OR	
Q.5(B)	i. Differentiate between HTTP GET and POST request.	4M
	ii. Write short notes on: HTTP API, Apache HTTP Client, HTTP URL Connection.	6M

*** END***

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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) Define Internet of Things? How do you say it is extension of internet? | 1M+5M |
| | ii) Explain the trends in information and communication technology. | 4M |

OR

| Q.1(B) | i) Write implications for Internet of Things. | 5M |
| | ii) Describe stress measurement M2M solution. | 5M |

| Q.2(A) | What is an information driven value chain for Retail? Explain it in market place. | 10M |

OR

| Q.2(B) | i) Explain information driven global value chain and draw the neat diagram. | 5M |
| | ii) Explain the landscape of M2Mand IoT standardization. | 5M |

| Q.3(A) | i) Describe the deployment scenarios for basic and advanced devices. | 5M |
| | ii) What is ETSI M2M Functional architecture? Explain it. | 1M+4M |

OR

| Q.3(B) | i) Define M2M data? Explain the key characteristics of M2M data. | 1M+4M |
| | ii) How can IoT be integrated with enterprise system. | 5M |

| Q.4(A) | i) What is IoT domain model? Explain it. | 1M+4M |
| | ii) What is communication model for IoT? Describe it. | 5M |

OR

| Q.4(B) | What is High-level IoT information model? Explain it. | 10M |

| Q.5(A) | i) Explain the interactions among devices, IoT Services and virtual entity services with neat diagram. | 5M |
| | ii) Write definition and full form of IMC-AESOP? Explain IMC- AESOP Cloud based architecture vision. | 1M+4M |

OR

| Q.5(B) | i) Explain technical design constrains. | 5M |
| | ii) What is IMC-AESOP? Explain future industrial system view of cloud based composition of cyber-physical services. | 1M+4M |

*** END***

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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)	i) Differentiate between Substitution and Transposition cipher with examples.	5M
	ii) Write a short note on Passive attacks	5M
	OR	
Q.1(B)	i) Explain IKE protocol in detail.	5M
	ii) Explain AH protocol.	5M
Q.2(A)	How data is protecting in TKIP and CCMP protocols? Explain in detail.	10M
	OR	
Q.2(B)	Discuss about security issues in GSM (2G).	10M
Q.3(A)	Explain about Discretionary access controls in OS with a case study.	10M
	OR	
Q.3(B)	Write a short note on the following attacks	10M
	i) SQL Injection ii) Buffer Oveflow	
Q.4(A)	i) Differentiate between virus and Worm.	4M
	ii) Explain about Topological Worms.	6M
	OR	
Q.4(B)	What is firewall? Explain about various types of firewalls.	10M
Q.5(A)	Explain any two approaches for intrusion detection.	10M
	OR	
Q.5(B)	Explain about security measurements in web services over intruders.	10M

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