MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA III Year I Semester (R14) Regular & Supplementary End Semester Examinations – Dec 2017

(Regulations: R14)

BIG DATA ANALYTICS

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)	What are the 5 VS 's in Big Data? Give two examples of bid data case studies.	6M
	Explain in detail about Intelligent Data Analysis.	6M

OR

Q.1(B)	i) Write a short notes on	
	a) Sampling distributions	3M
	b) Re-Sampling	3M
	ii) Differentiate between Analysis and Reporting.	6M
Q.2(A)	i) Explain the importance of stream computing.	6M
	ii) Discuss the applications of RTAP (Real Time Analytics Platform).	6M

OR

Q.2(B)	Illustrate the Case study – Stock market predictions	12M
Q.3(A)	i) Explain the components of HADOOP.	6M
	ii) What is the role of Data node and Name node in HDFS?	6M

OR

Q.3(B)	i) Discuss in brief about the building blocks of Hadoop.	8M
	ii) Write a short notes on Hadoop distributed file system.	4M
Q.4(A)	i) Define HADOOP cluster? How to plan the capacity for cluster HADOOP?	6M
	ii) What is the need for security in HADOOP?	6M

OR

Q.4(B)	i) Illustrate the steps involved in setup multi-node HADOOP cluster.	6M
	ii) Explain the working mechanism of NoSQL databases,	6M
Q.5(A)	i) What is the relation between Hadoop, Hive, Zookeeper and Pig?	6M
	ii) Explain difference between HBASE and HDFS in Hadoop,	6M

OR

Q.5(B)	i) Elicit the visualization tools available in Big Data and its importance.	8M
	ii) Write a short notes on Visual data analysis techniques	4M

*** END***

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

MCA III Year I Semester (R14) Regular & Supplementary End Semester Examinations – Dec 2017

(Regulations: R14)

NETWORK PROGRAMMING

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)	i) Explain the environment of Unix with an example.	6M
	ii) Differentiate between fork and vfork functions.	6M
	OR	
Q.1(B)	i) Illustrate the architecture of Unix with a neat diagram.	6M
	ii) Explain the structure of TCP/IP protocol suite upon which the Internet is built.	6M
Q.2(A)	With a neat diagram compare the five socket address structures.	8M
	Write a short notes on Byte Ordering Functions.	4M
	OR	
Q.2(B)	Explain in brief about the elementary socket function	
	i)Connect function	3M
	ii) Bind Function	3M
	Write short notes on concurrent server.	6M
Q.3(A)	Explain in brief about TCP echo client with a program.	12M
	OR	
Q.3(B)	i) List and explain the five I/O models under Unix.	8M
	ii) Differentiate between wait and waitpid functions.	4M
Q.4(A)	Write a short notes on	
	i)IP socket Options	6M
	ii)TCP socket options	6M
	OR	
Q.4(B)	i) Write a simple program that calls gethostbyname for any number of command-line arguments and prints all the returned information.	8M
	ii) Write a short notes on gethostbyaddr Function.	4M
Q.5(A)	i) Explain the concept of TCP echo TCP echo server using threads.	8M
	ii) Write a short notes on Mutexes.	4M
	OR	
Q.5(B)	Explain briefly about	
	i) Trace route program	6M
	ii) Ping program	6M

*** END***

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)
MCA III Year I Semester (R14) Regular & Supplementary End Semester Examinations – Dec 2017
(Regulations: R14)
MULTIMEDIA SYSTEMS

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 with neat diagram the various functions of multimedia development   12M
systems.

OR

Q.1(B)   i) Differentiate between MIDI and Digital Audio.   6M
         ii) What are the characteristics of Multimedia?   6M

Q.2(A)   i) Explain the working of Video with neat diagram.   12M
         ii) Write a short note on Loss compression with example.

OR

Q.2(B)   Explain different types of Animations with examples.   12M

Q.3(A)   Discuss in detail about CD-ROM File system and Forms .   12M

OR

Q.3(B)   Explain Gb/s Multimedia Adapter architecture with neat Diagram.   12M

Q.4(A)   How will you manage resources during Multimedia Transmission? Explain.   12M

OR

Q.4(B)   Discuss in detail about the notion of Synchronization.   12M

Q.5(A)   Explain the characteristics of MDBMS.   12M

OR

Q.5(B)   Explain in detail about management of multimedia file systems.   12M

*** END***