MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)
MCAII Year I Semester (R20) Supplementary End Semester Examinations, July - 2023
FULL STACK WEB DEVELOPMENT

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 A or B only

Q.No	Question	Marks	CO	BL
Q.1(A)	a) Explain the structure of the HTML program with Example.	6M	1	1
	(b) Explain the CSS 2D and 3D transforms with Example	6M	1	1
	OR			
Q.1(B)	What is CSS? Explain the CSS Lists & Tables with example.	12M	1	1
Q.2(A)	Explain Java script events with example.	12M	2	3
	OR			
Q.2(B)	Explain DOM model in Java Script.	12M	2	3
Q.3(A)	What is Dependency injection? Explain its services.	12M	3	3
	OR			
Q.3(B)	Explain how the modules are used in Angular JS.	12M	3	3
Q.4(A)	Explain the core features of Express framework?	12M	4	3
	OR			
Q.4(B)	How to create server using Node JS?	12M	4	1
Q.5(A)	Explain how to insert multiple rows into table using Node JS.	12M	5	3
	OR			
Q.5(B)	Why should we choose MERN Stack for building Mobile and Web applications?	12M	5	3

*** END***

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)
MCA II Year I Semester (R20) Supplementary End Semester Examinations, July - 2023
DATA SCIENCE

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 A or B only

Q.No	Question	Marks	CO	BL
Q.1(A)	Explain the measures of central tendency, measures of variability with suitable example.	12M	1	4
	OR			
Q.1(B)	i) How data science is helpful to explore business objectives? Describe. ii) Explain the workflow from data to deployment.	12M	1	2
Q.2(A)	What is an association rule? Generate association rules with the help of an example using Apriori algorithm.	12M	2	2
	OR			
Q.2(B)	List and explain the principal component analysis with example.	12M	2	3
Q.3(A)	(i) Distinguish between over fitting with under fitting of a model. (ii) Write down the steps for constructing of decision tree.	12M	3	4
	OR			
Q.3(B)	Define regression. Explain Multiple linear regressions with example.	12M	3	2
Q.4(A)	What is winter's method? How it is useful to support holt's method and simi exponential smoothing method. Discuss with example.	12M	4	3
	OR			
Q.4(B)	Explain about AR(p), MA(q) and ARIMA(p,d,q) models.	12M	4	2
Q.5(A)	What is a perceptron? How back propagation is used in multi-layer perceptron? Illustrate.	12M	5	2
	OR			
Q.5(B)	Explain about text mining, applications and its methods.	12M	5	4

*** END***

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

Q.No	Question	Marks	CO	BL
Q.1(A)	(a)How is data warehouse different from a database? (b) What are the application areas of data mining?	12M	1	2
	OR			
Q.1(B)	(a)What are the limitations of data Mining? (b) Describe different data cleaning approaches?	12M	1	3
Q.2(A)	For the following given transaction data set, generate rules using Apriori Algorithm. Consider the values as Support=22% and Confidence= 70%	12M	2	4

Transaction -ID	Items Purchased
1	I1,I2,I5
2	I2,I4
3	I2,I3
4	I1,I2,I4
5	I1,I3
6	I2,I3
7	I1,I3
8	I1,I2,I3,I5
9	I1,I2,I3

OR

Q.No	Question	Marks	CO	BL
Q.2(B)	Explain in detail about the implementation of a data warehousing?	12M	2	3
Q.3(A)	Explain Naïve Bayesian classification in detail with example?	12M	3	2
	OR			
Q.3(B)	Write and explain about Classification by Decision Tree Induction Algorithm?	12M	3	2

Q.4(A)	Define Clustering? Explain about Types of Data in Cluster Analysis?	12M	4	1
	OR			
Q.4(B)	Elaborate the various partitioning methods in detail?	12M	4	3
Q.5(A)	Explain spatial mining and time series mining?	12M	5	2
	OR			
Q.5(B)	Explain the process of mining the World Wide Web?	12M	5	2

*** END***