MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)
MCA II Year I Semester (R20) Supplementary End Semester Examinations –August 2022
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(I)	a)	Explain the Structure of HTML Program with neat diagram?	6M	1	2
	b)	What is meant by Transformation? Mention its types?	6M	1	2
		OR			
Q.1(II)	a)	What is TABLE tag? What are the attributes that can be used with table tag?	6M	1	2
	b)	Write HTML code with CSS to create table for your academic qualification details?	6M	1	3
Q.2(I)	a)	Explain in detail: The concept of Java script Arrays with example?	8M	2	2
	b)	Discuss Java script conditional construct with example?	4M	2	3
		OR			
Q.2(II)		Explain the loops available in java script with example	12M	2	2
Q.3(I)		What are the features of AngularJS?	12M	3	2
		OR			
Q.3(II)	a)	What is the module in AngularJS?	6M	3	2
	b)	What are the directives in AngularJS? Give Example?	6M	3	2
Q.4(I)	a)	What is Node js?List out some advantages of node js?	6M	4	2
	b)	Illustrate the importance of REPL and explain the commands of REPL.	6M	4	2
		OR			
Q.4(II)		Define Event Emitter and discuss its methods with example?	12M	4	3
Q.5(I)		How to connect node.js with MySQL database, explain with example code?	12M	5	4
		OR			
Q.5(II)		How to create a table in Node.js database? Create a table for Student information and print the content using select Query?	12M	5	3

*** END***

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MCA II Year I Semester (R20) Supplementary End Semester Examinations –August 2022
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(I)	Write a note on measures of central tendency, measures of variability with suitable example?	12M	1	2
	OR			
Q.1(II)	Discuss in detail about kurtosis with suitable diagram and example?	12M	1	2
Q.2(I)	What is meant by confidence? Explain an apriori algorithm with an illustration.	12M	2	3
	OR			
Q.2(II)	How PCA is helpful in feature reduction? Discuss.	12M	2	2
Q.3(I)	Define regression? How multiple regression is useful in prediction, explain?.	12M	3	2
	OR			
Q.3(II)	What is bagging? How bagging is useful in random forest? Explain?	12M	3	2
Q.4(I)	Explain the following: i) naïve approach ii) weighted moving average iii) ACF plot.	12M	4	2
	OR			
Q.4(II)	Discuss about AR(p), MA(q) model with suitable example? .	12M	4	3
Q.5(I)	What is a perceptron? How backpropagation is used in multi-layer perceptron? Illustrate?	12M	5	3
	OR			
Q.5(II)	Portray about emotion mining with an illustration?	12M	5	2

*** END***

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CLOUD COMPUTING

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) What is Cloud Computing? Explain the benefits and need for Cloud Computing? (b) Briefly explain Cloud Characteristics?	7M 5M	1	1 1
	OR			
Q.1(B)	Discuss in detail different System models for Distributed Computing and Cloud Computing?	12M	1	2
Q.2(A)	(a) Explain the best practices in Cloud Computing Architecture? (b) Explain the architecture of Cloud Computing Stack?	6M 6M	2 2	1 1
	OR			
Q.2(B)	Explain the cloud deployment models in detail? Also outline their benefits and limitations?	12M	2	3
Q.3(A)	What is Virtualization in Cloud Computing? Explain the characteristics of Server Virtualization and Application Virtualization?	12M	3	1
	OR			
Q.3(B)	Explain the Distributed Management of VMs in Open Nebula?	12M	3	1
Q.4(A)	Explain different types of leases in the reservation of VMs?	12M	4	1
	OR			
Q.4(B)	Discuss the Fault Tolerance in Map Reduce Model?	12M	4	2
Q.5(A)	Explain in detail about Network Intrusion Detection?	12M	5	1
	OR			
Q.5(B)	Explain the data security and storage in change management and cloud security?	12M	5	1

*** END***

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MCA II Year I Semester (R20) Supplementary End Semester Examinations –August 2022
DATA WAREHOUSING AND DATA 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 A or B only

Q.No.	Question	Marks	CO	BL
Q.1(A)	Explain different Data mining tasks?	12M	1	3
	OR			
Q.1(B)	(a)How can Data Mining help business analyst?	6M	1	3
	(b) What are the limitations of data Mining?	6M	1	1
Q.2(A)	Explain multidimensional data model with a neat diagram?	12M	2	3
	OR			
Q.2(B)	Write the algorithm for mining frequent item sets without candidate generation. Give relevant example?	12M	2	2
Q.3(A)	What is Attribute selection measure? Explain all its types?	12M	3	1
	OR			
Q.3(B)	What is prediction? Explain about Linear regression method?	12M	3	1
Q.4(A)	Define Clustering? Explain about Types of Data in Cluster Analysis?	12M	4	1
	OR			
Q.4(B)	Discuss about the grid based methods?	12M	4	3
Q.5(A)	Explain the process of mining the World Wide Web?	12M	5	3
	OR			
Q.5(B)	Explain the various types of web mining?	12M	5	3

*** END***

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MCA II Year I Semester (R20) Supplementary End Semester Examinations –August 2022
SOFTWARE QUALITY ASSURANCE AND TESTING

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)	Recall basic principles of testing?	12M	1	5
	OR			
Q.1(B)	Describe various Quality control processes in detail with suitable example?	12M	1	2
Q.2(A)	Define boundary value analysis?	12M	2	2
	OR			
Q.2(B)	Describe acceptance test execution?	12M	2	2
Q.3(A)	What is meant by Testing with State Verification?	12M	3	2
	OR			
Q.3(B)	Explain the difference between coverage metrics and traceability matrix?	12M	3	4
Q.4(A)	Discuss functionality and reliability?	12M	4	2
	OR			
Q.4(B)	State some difficulties in applying the McCall and ISO 9126 quality models?	12M	4	3
Q.5(A)	Show What is the primary motivation for risk identification?	12M	5	3
	OR			
Q.5(B)	Describe in detail about defect management based on fault tolerance?	12M	5	2

*** END***