

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)
[B19IT4101]

IV B. Tech I Semester (R19) Regular Examinations
CRYPTOGRAPHY AND NETWORK SECURITY
INFORMATION TECHNOLOGY
MODEL QUESTION PAPER

TIME: 3Hrs.

Max. Marks: 75 M

Answer **ONE Question** from **EACH UNIT**.

All questions carry equal marks.

			CO	KL	M
UNIT-I					
1	a)	Explain about Principles of security	1	3	7
	b)	Explain substitution techniques	1	3	8
OR					
2	a)	Explain Play Fair Cipher with Example	1	3	7
	b)	Explain RC-4 Algorithm	1	3	8
UNIT-II					
3	a)	$P=17, Q=37, E=7, M=2$. What is Cipher Text using RSA?.	2	3	8
	b)	Differences between Symmetric and Asymmetric Cryptography	2	3	7
OR					
4	a)	Explain MD-5 Algorithm	2	3	8
	b)	Explain about Digital Signature	2	3	7
UNIT-III					
5	a)	Describe Authentication Token Mechanism	3	2	8
	b)	Explain about Kerberos.	3	3	7
OR					
6	a)	Explain Digital certificate	3	3	8
	b)	Explain PKIX Model.	3	3	7
UNIT-IV					
7	a)	Explain IP Security	4	3	8
	b)	Explain Security in GSM	4	3	7
OR					
8	a)	Explain Secure Socket Layer	4	3	7
	b)	Explain SET Protocol	4	3	8
UNIT-V					
9	a)	What is a virus? Explain virus counter measures.	5	2	7
	b)	Explain Countermeasures to worms	5	3	8

OR					
10	a)	Explain Denial of service attack.	5	3	7
	b)	What are Honey pots? Explain	5	2	8
		CO-COURSE OUTCOME	KL-KNOWLEDGE LEVEL		M-MARKS

NOTE : Questions can be given as A,B splits or as a single Question for 15 marks



SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)
[B19IT4102]

IV B. Tech I Semester (R19) Regular Examinations
MACHINE LEARNING
INFORMATION TECHNOLOGY
MODEL QUESTION PAPER

TIME: 3Hrs.

Max. Marks: 75 M

Answer **ONE Question** from **EACH UNIT**.

All questions carry equal marks.

			CO	KL	M
UNIT-I					
1.	a).	Differentiate different kinds of tasks in Machine Learning with examples?	1	2	8
	b).	Explain the models used in Machine Learning.	1	2	7
OR					
2.		Differentiate between the One-Versus-One and One-versus-Rest machine learning methods for multi class classification using binary classification?	1	3	15
UNIT-II					
3.	a).	What is hypothesis space? Explain least general generalization of concept learning with an algorithm?	2	2	7
	b).	Explain how hypothesis space search is carried in decision tree learning?	2	2	8
OR					
4.	a).	Discuss about various steps to construct the decision tree model.	2	2	7
	b).	Elaborate how can we learn unordered rule set from classifier in detail with an algorithm?	2	3	8
UNIT-III					
5.	a).	Differentiate linear models and distance based models.	3	3	8
	b).	Explain how Support Vector Machine can be used for classification of linearly separable data.?	3	3	7
OR					
6.	a).	Write an algorithm for Hierarchical Clustering and explain with an example?	3	3	8
	b).	Explain univariate linear regression using least square method?	3	2	7
UNIT-IV					
7.	a).	Elaborate Naive Bayes probabilistic model for categorical data with an example?	4	3	7
	b).	Explain univariate & multivariate normal distribution used for interpretation	4	2	8

OR					
8.	a).	Write about Ensemble Learning. Justify bagging with Random Forest algorithm with an example?	4	3	7
	b).	Discuss about the steps to be performed on features that effect the efficiency of classifier	4	2	8
UNIT-V					
9.	a).	What is meant by Dimensionality reduction? Apply PCA to reduce the dimensionality reduction.	5	3	7
	b).	Explain the concept of learning hidden layer representations	5	2	8
OR					
10.	.	What is Artificial Neural Network? Explain back propagation in Neural Network with suitable example?	5	2	15
		CO-COURSE OUTCOME	KL-KNOWLEDGE LEVEL	M-MARKS	

NOTE : Questions can be given as A,B splits or as a single Question for 15 marks



SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)**[B19IT4103]****IV B. Tech I Semester (R19) Regular Examinations****CLOUD COMPUTING****INFORMATION TECHNOLOGY****MODEL QUESTION PAPER****TIME: 3Hrs.****Max. Marks: 75 M****Answer ONE Question from EACH UNIT.**

All questions carry equal marks.

		CO	KL	M	
UNIT-I					
1.	a).	What is Cloud Computing? Explain about Cloud Components with neat diagram.	1	2	7
	b).	How do you Apply and Distinguish Full Virtualization and Para Virtualization concepts in high performance computing applications?	1	3	8
OR					
2.	a).	Discuss about the tools and products available for virtualization.	1	3	7
	b).	Analyze open SaaS Solution and Mashup with real time examples?	1	3	8
UNIT-II					
3.	a).	Build a PaaS application using Google App Engine and Force.com?	2	3	8
	b).	How to apply Service Oriented Architecture diagrams in developing any cloud application?	2	3	7
OR					
4.	a).	Apply IaaS concepts to improving Performance through Load Balancing with neat diagrams?	2	2	7
	b).	Write and Analyze different types of Server in IaaS solutions? Apply IaaS Solution concepts to build a RACKSPACE?	2	2	8
UNIT-III					
5.	a).	Discuss and Analyze Client Server Distributed Architecture for Cloud?	3	3	8
	b).	Distinguish the Traditional Apps and Cloud Apps.	3	3	7
OR					
6.	a).	Apply Design concepts to design a Cloud based solutions?	3	3	7
	b).	Design Web application Framework by applying AJAX framework concepts?	3	3	8
UNIT-IV					
7.	a).	Write an Analysis Document on the business continuity and	4	2	8

		Disaster Recovery in the Cloud environment?			
	b).	Analyze Data Storage Wiping concept to prevent inadvertent data access?	4	2	7
OR					
8.	a).	Explain about the Cloud Data Storage and its Solutions?	4	3	8
	b).	Write about governing and evaluating the clouds business impact and economics.	4	3	7
UNIT-V					
9.	a).	Describe the architecture of Google file system?	5	3	8
	b).	Explain about Amazon Simple Storage Service (S3)?	5	3	7
OR					
10.	a).	Write an Analysis Document on MapReduce and Hadoop?	5	2	7
	b).	Analysis and access the Big Data and its impact on Cloud?	5	3	8
		CO-COURSE OUTCOME	KL-KNOWLEDGE LEVEL	M-MARKS	

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SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)
[B19IT4104]

IV B. Tech I Semester (R19) Regular Examinations
BIGDATA ANALYTICS
INFORMATION TECHNOLOGY
MODEL QUESTION PAPER

TIME: 3Hrs.

Max. Marks: 75 M

Answer **ONE Question** from **EACH UNIT**.

All questions carry equal marks.

			CO	KL	M
		UNIT-I			
1.	a).	List out different challenges in Conventional Systems while handling big data.	1	2	7
	b).	List the different analytical processing tools	1	2	8
		OR			
2.	a).	Explain about Nature of data in Big data.	1	2	7
	b).	What are the types of Big Data and Describe the characteristics of Big Data.	1	2	8
		UNIT-II			
3.	a).	Explain the Stream Model and Data Stream Management System Architecture.	2	2	8
	b).	Explain how to count 1's in a window using DGIM algorithm.	2	3	7
		OR			
4.	a).	What is Filtering Streams? Explain Bloom Filter with an example.	2	3	7
	b).	Write a short note on Finding most popular elements using decaying window.	2	3	8
		UNIT-III			
5.	a).	How Hadoop streaming is suited with text processing explain.	3	2	7
	b).	How do you analyze the data in Hadoop.	3	2	8
		OR			
6.	a).	Define HDFS. Describe Namenode, Datanode and block. Explain HDFS operations in detail.	3	2	8
	b).	How Map Reduce job works with classic java stream.	3	2	7
		UNIT-IV			
7.	a).	Write in detail the concept of developing the Map Reduce Application	4	2	8
	b).	Explain how Map Reduce jobs run on YARN.	4	2	7
		OR			
8.	a).	Discuss the various types of Map Reduce & its formats.	4	2	7
	b).	Explain how to schedule job in hadoop	4	2	8

UNIT-V					
9.	a).	Explain two execution types or modes in PIG	5	2	7
	b).	Explain the process of installing HIVE & features of HIVE	5	2	8
OR					
10.	a).	What is Zookeeper explain its features with applications	5	2	7
	b).	Discuss the Visual Data Analysis Techniques in detail.	5	2	8

CO-COURSE OUTCOME

KL-KNOWLEDGE LEVEL

M-MARKS

NOTE : Questions can be given as A,B splits or as a single Question for 15 marks



SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)
[B19IT4111]

IV B. Tech I Semester (R19) Regular Examinations

INTERNET OF THINGS
INFORMATION TECHNOLOGY
MODEL QUESTION PAPER

TIME: 3Hrs.

Max. Marks: 75 M

Answer **ONE Question** from **EACH UNIT**.

All questions carry equal marks.

			CO	KL	M
UNIT-I					
1	a)	What are technology areas behind IoTs ?	1	2	7
	b)	What are the Sources of the IoTs ?	1	2	8
OR					
2	a)	How does M2M communication work? Explain.	1	2	7
	b)	Differentiate IoT and M2M Communication.	1	3	8
UNIT-II					
3	a)	Discuss Modified OSI Stack for the IoT/M2M Systems	2	2	7
	b)	Explain about data management and consolidation gateway.	2	3	8
OR					
4	a)	Explain about any two communication technologies used in IoTs.	2	3	7
	b)	Draw ETSI M2M domains and high-level architecture	2	3	8
UNIT-III					
5		Explain Web Connectivity for connected-Devices network using RESTFUL	3	3	15
OR					
6		Briefly discuss about Service-oriented protocol (COAP), Communication protocols based on the exchange of messages (MQTT).	3	3	15
UNIT-IV					
7	a)	Explain Wireless Communication Technologies.	4	3	7
	b)	Discuss Network Layer of IoT, 6lowPAN adaptation layer for devices with limited resources.	4	3	8
OR					
8	a)	Explain Dynamic routing protocols for wireless Adhoc networks	4	3	7
	b)	Write any 3 Wired Communication Technologies in detail	4	2	8
UNIT-V					
9	a)	Discuss data acquiring and Storage data Organizing data	5	3	7

	b)	Explain the process of Data Collection, Storage and Computing Using a Cloud Platform	5	3	8
OR					
10		Explain IOT based cloud-based services using Xively & Nimbits	5	3	15
		CO-COURSE OUTCOME		KL-KNOWLEDGE LEVEL	M-MARKS

NOTE : Questions can be given as A,B splits or as a single Question for 15 marks



SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)
[B19HS4201]

IV B. Tech II Semester (R19) Regular Examinations
MANAGEMENT AND ORGANIZATIONAL BEHAVIOR
(Common to CSE & IT)
MODEL QUESTION PAPER

TIME: 3Hrs.

Max. Marks: 75 M

Answer **ONE Question** from **EACH UNIT**.
 All questions carry equal marks.

		CO	KL	M
UNIT-I				
1.	Define Management and Explain its functions	1	2	15
OR				
2.	Explain the principles of Management as outlined by Henry Fayol	1	2	15
UNIT-II				
3.	Describe the functions performed by Human Resource Manager	2	2	15
OR				
4.	Define Marketing, Explain in detail about Marketing mix	2	3	15
UNIT-III				
5.	Explain about the importance of Mission, Goal, Objective and Strategy	3	2	15
OR				
6.	What do you understand by SWOT analysis? Explain how it can be carried out.	3	2	15
UNIT-IV				
7.	What is Organisational Change and describe about the types of change	4	2	15
OR				
8.	What is Motivation and Explain about Maslows Human Need Theory	4	2	15
UNIT-V				
9.	Explain about the consequences of conflicts in an organisation	5	2	15
OR				
10.	What is Stress & Describe about methods of managing Stress	5	2	15
CO-COURSE OUTCOME		KL-KNOWLEDGE LEVEL		M-MARKS

NOTE : Questions can be given as A,B splits or as a single Question for 15 marks

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)
[B19IT4204]

IV B. Tech II Semester (R19) Regular Examinations
E-COMMERCE
INFORMATION TECHNOLOGY
MODEL QUESTION PAPER

TIME: 3Hrs.

Max. Marks: 75 M

Answer **ONE Question** from **EACH UNIT**.

All questions carry equal marks.

			CO	KL	M
UNIT-I					
1.	a).	Analyze and apply the available communication apparatus in E-commerce environment?	CO1	K3	8
	b).	Explain about the Electronic Marketplace Technologies	CO1	K2	7
OR					
2.	a).	Apply e-commerce concepts to distinguish between the EDI and Open EDI?	CO1	K3	8
	b).	Explain briefly about internet and www tools.	CO1	K3	7
UNIT-II					
3.	a).	Identify the Secure File Transfer requirements and distinguish between S-HTTP and SSL Protocols.	CO2	K3	8
	b).	Identify the secure payment requirements and Apply the SEPP architecture?	CO2	K3	7
OR					
4.	a).	Explain about security on enterprise networks.	CO2	K3	8
	b).	Explain secure electronic transaction (SET).	CO2	K2	7
UNIT-III					
5.	a).	Explain the internet monetary payment and security requirements in electronic commerce.	CO3	K2	8
	b).	Analyze and simplify the Payment & Purchase Order process in a secured manner?	CO3	K3	7
OR					
6.	a).	What is E-cash? How to defend/prevent double spending in E-Cash? Elaborate with an algorithm?	CO3	K3	8
	b).	How does e-mail work? State its advantages with regard to e-commerce.	CO3	K3	7
UNIT-IV					
7.	a).	Explain about master card / visa secure electronic transaction.	CO4	K3	6
	b).	Analyze the following terms in E-Commerce: 1) Blind Digital Signature 2) Electronic Payment Schemes 3) Difference between Credit card and Debit card.	CO4	K3	9
OR					
8.	a).	Identify and explain model for Message Handling Systems (ITU-T Model)?	CO4	K3	8

	b).	Write short notes on UUEncode/UUDecode.	CO4	K3	7
UNIT-V					
9.	a).	Identify and explain various mechanisms for information search and retrieval from the Internet?	CO4	K3	8
	b).	Explain about the Internet Applications for E-commerce?	CO4	K3	7
OR					
10.	a).	Develop an Internet Architecture for E-Commerce for access the internet?	CO4	K3	8
	b).	Describe Technologies for Web Servers in E-commerce.	CO4	K2	7

CO-COURSE OUTCOME

KL-KNOWLEDGE LEVEL

M-MARKS

NOTE : Questions can be given as A,B splits or as a single Question for 15 marks

