[B17 IT 4101]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

IV B. Tech I Semester (R17) Regular Examinations

DISTRIBUTED SYSTEMS

(Information Technology)

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 70 M**

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

All questions carry equal marks

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			CO	KL	M
		UNIT - I			
1.	a).	Describe Distributed computing as utility?	CO1	K2	7M
	b).	What are the different benefits of resource sharing? Explain about significance	CO1	K2	7M
		OR			
2.	a).	What are different system model of distributed system?	CO1	K2	7M
	b).	Discuss how distributed systems are more scalable than the centralized systems?	CO1	K2	7M
		UNIT - II			
3.	a).	Differentiate between TCP stream communication and client server communication	CO2	K2	7M
	b).	Explain how to adapt the casually ordered multicast protocol to handle overlapping groups.	CO2	K2	7M
		OR			
4.	a).	What is inter process communication? How inter process communication is used in distributed systems?	CO2	K2	7M
	b).	Briefly explain the external data representation and marshalling	CO2	K2	7M
		UNIT - III			
5.	a).	Explain the implementation of the RMI and distributed garbage collection	CO3	K2	7M
	b).	What are design issues of remote method invocation	CO3	K2	7M
		OR			
6.	a).	Discuss about the communication between distributed objects in RMI	CO3	K2	7M
	b).	Discuss about various Remote Procedure Calls.	CO3	K2	7M
		UNIT - IV			
7.	a).	Elaborate File service architecture with neat sketch	CO4	K2	7M
	b).	Explain characteristics of Peer-to-Peer systems	CO4	K2	7M
		OR			
8.	a).	List the characteristics of file systems	CO4	K2	7M
	b).	What is meant by Thread? Differentiate between process and thread	CO4	K2	7M
		UNIT - V			
9.	a).	Discuss in detail about Deadlock and Locking schemes in distributed Concurrency control.	CO4	K2	7M
	b).	Explain how primary-backup model of replication is fault tolerant?	CO4	K2	7M
		OR			
10.	a).	Explain how distributed deadlocks can be detected?	CO4	K2	7M
	b).	What is meant by concurrency control? How it is important in distributed systems?	CO4	K2	7M

[B17IT4102]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

IVB. Tech I Semester (R17) Regular Examinations

MOBILE COMPUTING

(Information Technology)

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 70 M**

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

All questions carry equal marks

*****

			CO	KL	M
UNIT - I					
1.	a).	Explain about the novel applications and limitations of mobile computing.	CO1	K2	7M
	b).	Describe in detail with the architecture for mobile communications.	CO1	K2	7M
OR					
2.	a).	Define mobile computing ?Explain about different types of communication	CO1	K2	7M
	b).	Discuss about handheld devices and its limitations	CO1	K2	7M
UNIT - II					
3.	a).	Discuss about the mobile services and data services in GSM.	CO1	K2	7M
	b).	Describe in detail about the system architecture of GSM.	CO1	K2	7M
OR					
4.	a).	Elucidate in detail about the radio interface and protocols of GSM System architecture.	CO1	K2	7M
	b).	Explain about the concept of localization and calling in detail. Also discuss different types of handover in GSM	CO1	K2	7M
UNIT - III					
5.	a).	Tabulate SDMA, TDMA, FDMA and CDMA.	CO2	K4	7M
	b).	Explain about hidden and exposed terminals in detail.	CO2	K4	7M
OR					
6.	a).	Explain in detail about spread Aloha multiple access (SAMA).	CO2	K4	7M
	b).	Discuss in detail about Time Division Multiple Access TDMA.	CO2	K4	7M
UNIT - IV					
7.	a).	Discuss about snooping TCP. Also focus on its advantages and its disadvantages.	CO3	K4	7M
	b).	Explain the usage of selective retransmission in TCP in mobile networks.	CO3	K4	7M
OR					
8.	a).	Give an overview of classical enhancements to TCP for mobility.	CO3	K4	7M
	b).	Discuss in detail about mobile TCP.	CO3	K4	7M
UNIT - V					
9.	a).	Discuss in detail about different hoarding techniques for databases	CO4	K2	7M
	b).	Explain about transactional models in detail.	CO4	K2	7M
OR					
10.	a).	Explain in detail different cache invalidation mechanisms.	CO4	K2	7M
	b).	Discuss about query processing in mobile networks.	CO4	K2	7M

[B 17 BS 4101]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

IV B. Tech I Semester (R17) Regular Examinations

MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTANCY

Common to CSE & IT

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 70 M**

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

All questions carry equal marks

*****

		CO	KL	M
	UNIT-I			
1.	Define Managerial Economics and Explain its nature and scope	**CO1**	**K2**	**14**
	OR			
2.	What do you mean by Elasticity of demand? Explain in detail about degrees of Price elasticity of Demand?	**CO1**	**K2**	**14**
	UNIT-II			
3.	Define Cost &classify the Elements of Cost?	**CO2**	**K2**	**14**
	OR			
4.	How do you calculate BEP? What are its Assumptions and Applications?	**CO2**	**K3**	**14**
	UNIT-III			
5.	What are Market Structures and explain the features of Perfect Competition?	**CO3**	**K2**	**14**
	OR			
6.	Why is pricing significant in the context of business? Describe any four pricing practices?	**CO3**	**K2**	**14**
	UNIT-IV			
7.	Describe about the Importance of Accounting and types of accounts	**CO4**	**K2**	**14**
	OR			
8.	Prepare the proforma of Trading Account and Profit & Loss account	**CO4**	**K3**	**14**
	UNIT-V			
9.	Explain about capital and the sources available for raising finance	**CO5**	**K2**	**14**
	OR			

10.	Explain about the concept and causes of depreciation. Evaluate the straight line method and diminishing balance methods.	**CO5**	**K2**	**14**

[B17 IT 4103]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

IV B. Tech I Semester (R17) Regular Examinations

BIG DATA ANALYTICS

(Information Technology)

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 70 M**

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

All questions carry equal marks

*****

			CO	KL	M
		UNIT - I			
1.	a).	List and Explain Characteristics of Big data with suitable examples	1	2	7
	b).	What is Distributed File System? Explain about Google File System(GFS)	1	2	8
		OR			
2.	a).	How data is organized differently in Data Warehouse & Hadoop? Explain.	1	2	7
	b).	Explain the architecture of Building blocks of Hadoop.	1	2	8
		UNIT - II			
3.	a).	Mention the configuration of Hadoop Cluster using Fully Distributed Mode in detail	2	2	7
	b).	Explain how matrix multiplication is carried out using Map Reduce algorithm	2	3	8
		OR			
4.	a).	Name different configuration files in Hadoop?	2	2	7
	b).	How to specify a combiner function? Write a program on application to find the maximum temperature, using a combiner function for efficiency.	2	3	8
		UNIT - III			
5.	a).	Explain about the Writable wrappers for Java primitives.	3	2	7
	b).	What is writable comparable interface? Explain with suitable example	3	3	8
		OR			
6.	a).	Write briefly about Writable Concepts i. Text ii. Bytes writable	3	2	7
	b).	Explain about the implementation of raw comparator and custom raw comparator with an example.	3	3	8
		UNIT - IV			
7.	a).	Write a brief note on distributed modes of running PIG Scripts.	4	2	7
	b).	With suitable query explain the following Pig Latin relational operators i). JOIN ii). ORDER iii). UNION	4	3	8
		OR			
8.	a).	Illustrate the Architecture of PIG	4	2	7
	b).	Explain different data pre processing Operations used in Pig.	4	3	8
		UNIT – V			
9.	a).	How to create and Manage the database and tables using Hive	4	2	7
	b).	Write about various forms of the SELECT statement to retrieve data from Hive.	4	3	8

OR					
10.	a).	Explain how the Data Manipulation Language Works.	4	2	7
	b).	Write about various forms of join operations in Hive	4	3	8

[B17 IT 4104]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

IV B. Tech I Semester (R19) Regular Examinations

INFORMATION RETRIEVAL SYSTEM

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 70 M**

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

All questions carry equal marks

*****

			CO	KL	M
UNIT - I					
1.	a).	Define Information Retrieval System? Explain it's role in today's internet era	CO1	K1	7
	b).	Explain various algorithms used in IR System	CO2	K2	7
OR					
2.	a).	Explain about IR System Evaluation	CO1	K2	7
	b).	Classify different types of information systems?	CO2	K2	7
UNIT - II					
3.	a).	Illustrate the role of Inverted Files in IRS	CO2	K2	7
	b).	Explain about Building Inverted File using a sorted array?	CO2	K2	7
OR					
4.	a).	Illustrate various structures used in Inverted file implementation	CO3	K2	7
	b).	Apply the working model Fast Inversion Algorithm to generate inverted file	CO3	K3	7
UNIT - III					
5.	a).	Illustrate the concept and characteristics of signature files?	CO3	K2	7
	b).	Compare various vertical partitioning techniques with compression	CO2	K2	7
OR					
6.	a).	Explain about Sequential Signature File	CO3	K2	7
	b).	Classify various horizontal partitioning techniques	CO3	K2	7
UNIT - IV					
7.	a).	Analyze the concepts of PAT Trees and PAT Arrays and their role in IRS	CO2	K4	7
	b).	Demonstrate how to build PAT trees as PATRICA trees	CO1	K2	7
OR					
8.	a).	Illustrate the structure of PAT Tree with an example	C02	K2	7
	b).	Demonstrate how PAT Trees are represented as Arrays	CO4	K2	7
UNIT - V					
9.	a).	Explain the stemming process and its importance in Information Retrieval?	CO4	K2	7
	b).	Illustrate the role of thesauri in IRS	CO3	K1	7
OR					
10.	a).	Explain about various Types of Stemming Algorithms	CO4	K2	7
	b).	Explain about Thesaurus Construction.	CO3	K2	7

[B17 IT 4105]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

IV B. Tech I Semester (R17) Regular Examinations

INTERNET OF THINGS

(Information Technology)

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 75 M**

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

All questions carry equal marks

*****

			CO	KL	M
		UNIT - I			
1.	a).	Define Internet of Things? List and explain different characteristics of IoT	CO1	K2	8
	b).	Differentiate between physical and logical design of IoT.	CO1	K3	7
		OR			
2.	a).	Explain different IOT enabling technologies?	CO1	K2	7
	b).	Illustrate how IOT plays role on at least two domain specific IoTs.	CO1	K3	8
		UNIT - II			
3.	a).	Explain the generic M2M System Solution with a neat diagram	CO1	K2	7
	b).	Explain the potential and benefits of an IoT oriented approach over M2M by considering a real world use case example. Compare the main characteristics of M2M and IoT.	CO1	K3	8
		OR			
4.	a).	Explain the need for IoT system management?	CO2	K2	7
	b).	What is SNMP? Explain in detail operation and limitations of SNMP?	CO2	K2	8
		UNIT - III			
5.	a).	Design a case study for IoT based Weather monitoring system?	CO2	K4	8
	b).	Explain different python packages for IoT applications?	CO2	K3	7
		OR			
6.	a).	Explain control flow and functions in python with examples?	CO2	K3	7
	b).	Justify why python is used for IoT systems logical design?	CO2	K3	8
		UNIT - IV			
7.	a).	Explain the need for cloud storage for IoT Applications with an example?	CO3	K2	7
	b).	Explain AWS cloud storage model and it services?	CO3	K2	8
		OR			
8.	a).	Explain with a neat diagram the operation of Web Application Messaging Protocol?	CO3	K3	8
	b).	Explain steps involved in designing RESTful web API	CO3	K2	7
		UNIT - V			
9.	a).	Explain different steps involved in IoT system Design.	CO4	K2	7
	b).	Explain with a neat sketch of functional view specification for Home Automation	CO4	K3	8
		OR			
10.	a).	Explain various IoT deployment level specifications.	CO4	K2	7
	b).	Draw and explain domain model specification for Agriculture application of IoT	CO4	K3	8

[B17 IT 4106]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

IV B. Tech I Semester (R17) Regular Examinations

MULTIMEDIA PROGRAMMING

(Information Technology)

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 75 M**

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

All questions carry equal marks

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			CO	KL	M
		UNIT – I			
1.	a).	Compare between Unformatted Text, Formatted Text, Hyper Text	1	3	8
	b).	State and explain the basic form of representation of text,audio,video	1	2	7
		OR			
2.	a).	Explain the meaning of compression & why it is used?	1	2	7
	b).	Explain different ways of audio and video information representation.	1	2	8
		UNIT – II			
3.	a).	Differentiate between entropy and source encoding	2	3	7
	b).	Encode using static Huffman coding for following 0.25,0.25,0.14,0.14,0.055,0.055,0.055,0.055.Write the code generation and construct Huffman tree	2	3	8
		OR			
4.	a).	Explain the principle of operation of the LWZ compression algorithm and how this is different from LZ algorithm	2	3	8
	b).	Explain the dynamic Huffman coding used in text compression	2	3	7
		UNIT – III			
5.	a).	Is Graphics Interchange Format (GIF) is the representation of computer graphics.justify your answer	1	3	8
	b).	Explain the ways in which Tagged Image File Format can be compressed.	1	2	7
		OR			
6.	a).	Expalin how the Digitised Documents can be compressed in detail.	1	2	8
	b).	Explain JPEG modes of operation of image compression.	1	2	7
		UNIT – IV			
7.	a).	Explain in detail about the Differential Pulse Coded Modulation (DPCM)	2	2	8
	b).	Explain in detail about the Adaptive Differential PCM (ADPCM)	2	2	7
		OR			
8.	a).	Explain in detail about the Adaptive Predictive Coding	2	2	8
	b).	Give the importance of Linear Predictive Coding in audio compression	2	2	7
		UNIT – V			
9.	a).	Write the standards defined by MPEG1,MPEG2,MPEG4.Explain in detail MPEG4 coding principles	1	2	8
	b).	List out the principles of video compression	1	2	7
		OR			
10.	a).	Explain in detail the digitalization of video signals and also explain in	1	2	8

		detail the various digitisation formats of video signals			
	b).	Compare the difference between MPEG1,MPEG2,MPEG4	1	2	7

[B17 IT4107]
SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)
IV B. Tech I Semester (R17) Regular Examinations
EMBEDDED SYSTEMS
(Information Technology)
MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 75 M**

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

			CO	KL	M
UNIT - I					
1.	a).	What are the different types of ROMs that are used in Embedded boards? Explain	1	K4	7
	b).	Explain 8051 Programming Model.	1	K4	7
OR					
2.	a).	Describe the Share data problem in nuclear reactor embedded system.	1	K4	7
	b).	Explain Interrupt latency with diagrams.	1	K4	7
UNIT - II					
3.	a).	Write Round Robin Architecture with suitable example.	2	K4	7
	b).	Explain Round Robin with interrupts Architecture.	2	K4	7
OR					
4.	a).	Explain Initializing of RTOS in Underground Tank Monitoring system	2	K3	7
	b).	Discuss semaphore variants and problems.	2	K3	7
UNIT – III					
5.	a).	Explain the Inter Task Communication offered by RTOS.	3	K3	7
	b).	Explain Interrupt Routines Rules in an RTOS Environment.	3	K3	7
OR					
6.	a).	Write the basic Design principles of Embedded System.	3	K6	7
	b).	Explain Encapsulation Semaphores and Queues.	3	K6	7
UNIT – IV					
7.	a).	Explain Linker/Locator for Embedded Software.	3	K6	7
	b).	Explain Getting Embedded Software into the Target System.	3	K6	7
OR					
8.	a).	Explain Debugging Techniques.	4	K4	7
	b).	Explain logic Analyzer laboratory tool.	4	K4	7
UNIT – V					
9.	a).	Discuss IoT Architecture.	4	K4	7
	b).	Describe MQTT protocol for M2M/IoT connectivity	4	K4	7
OR					
10.	a).	Explain Machine to Machine architecture.	4	K4	7
	b).	Explain in detail the 6LoWPAN adaption layer protocol.	4	K4	7

[B17 IT 4108]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

IV B. Tech I Semester (R17) Regular Examinations

SOFTWARE PROJECT MANAGEMENT

(Information Technology)

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 70 M**

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

All questions carry equal marks

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			CO	KL	M
		UNIT - I			
1.	a).	Explain the activities of software project management with an example.	CO1	K2	7
	b).	Explain few problems associated with software projects.	CO1	K2	7
		OR			
2.	a).	Explain objectives and goals of Project Planning	CO1	K2	7
	b).	Explain Software effort estimation techniques.	CO1	K2	7
		UNIT - II			
3.	a).	Explain Incremental Process Frame work with suitable example	CO2	K3	7
	b).	Describe Life cycle Phases of Project Management	CO2	K3	7
		OR			
4.	a).	Define artifact? Explain Process Artifacts?	CO2	K3	7
	b).	Explain Process Workflows?	CO2	K3	7
		UNIT - III			
5.	a).	Describe critical path analysis with the help of suitable example.	CO3	K3	7
	b).	Explain in detail about COCOMO model with example.	CO3	K2	7
		OR			
6.	a).	What are the three approaches to identify the activities that make up a project? Explain.	CO3	K3	7
	b).	What is estimation? Describe Use case-based estimation	CO3	K2	7
		UNIT - IV			
7.	a).	Explain in detail about risk management.	CO3	K3	7
	b).	Explain about PERT technique with example.	CO3	K4	7
		OR			
8.	a).	List the major risks that might affect your next programming assignment and identify strategies for minimizing each of those risks.	CO4	K4	7
	b).	Explain in detail about risk identification.	CO3	K2	7
		UNIT - V			
9.	a).	Describe the nature of resources in detail.	CO3	K2	7
	b).	Explain about defects tracking.	CO4	K4	7
		OR			
10.	a).	Discuss about resource scheduling.	CO4	K4	7
	b).	Describe earned value in detail.	CO4	K4	7

[B17 IT 4109]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

4/4 B. Tech I Semester (R17) Regular Examinations

Machine Learning

Department of Information Technology

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 70 M**

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

All questions carry equal marks

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			CO	KL	M
		UNIT - I			
1.	a).	What are various data types used to represent the knowledge in instance space?	1	2	7
	b).	What is bias & variance dilemma for polynomial function for regression	1	3	7
		OR			
2.	a).	Explain confusion matrix & ROC curve for accessing & visualizing the classifier performance	1	3	7
	b).	Describe the various machine learning methods for multi class classification using binary classification	1	2	7
		UNIT - II			
3.	a).	What is hypothesis space. Explain least general generalization of concept learning.	2	3	7
	b).	When we can judge the concept as complete & consistent? explain the mechanism for paths through hypothesis space.	2	3	7
		OR			
4.	a).	Discuss about various steps to construct the decision tree model.	2	2	7
	b).	Explain how can we learn unordered rule set from classifier in detail?	2	3	7
		UNIT – III			
5.	a).	Explain univariate & multivariate regression mechanisms in detail	3	3	7
	b).	Write & explain perceptron training algorithm for binary classification.	3	4	7
		OR			
6.	a).	How can we use support vector machine for binary classification? Discuss about soft margin of classifier	3	4	7
	b).	What is difference between objects? Explain the various differences used to find dissimilarity between objects	3	3	7
		UNIT – IV			
7.	a).	Explain univariate & multivariate normal distribution used for interpretation	4	4	7
	b).	Discuss how naive Bayesian classification is used for binary classification.	4	2	7
8.	a).	What is expectation maximization & explain how chicken-egg problem is resolved using it.	4	2	7
	b).	Discuss about the steps to be performed on features that effect the efficiency of classifier.	4	2	7
		UNIT – V			
9.	a).	What is the advantage of dimensionality reduction & explain how PCA is used in it.	5	4	7
	b).	What is artificial neural network? explain all the components of ANN in detail	5	3	7
		OR			
10.	a).	Explain how back propagation is used to train the neural network	5	3	7

	b).	Give two examples of problems that are appropriate to neural networks	5	3	7

[B17 IT 4110]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

IV B. Tech I Semester (R19) Regular Examinations

DECISION SUPPORT SYSTEMS

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 70 M**

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

All questions carry equal marks

*****

			CO	KL	M
		UNIT - I			
1.	a).	What is a Decision Support System? What are the main components of DSS?	CO1	K1	7
	b).	Define Seven Characteristics of Decision Support Systems? Explain which are common and which are optional?	CO2	K1	7
		OR			
2.	a).	Explain evaluation methodology for the DSS ?	CO1	K4	7
	b).	Classification of DSS subtypes ?	CO2	K2	7
		UNIT - II			
3.	a).	Define the three elements of a decision	CO2	K1	7
	b).	Describe the phases that every decision goes through.	CO2	K1	7
		OR			
4.	a).	Define a model? What are three reasons to use computer models to support decision-making?	CO3	K1	7
	b).	Identify your DSS course as a system. What is its purpose? What are its inputs? Its outputs? Its major processes?	CO3	K1	7
		UNIT - III			
5.	a).	Discuss Information Systems Data Flow Diagrams	CO3	K2	7
	b).	Describe System and information quality decision support systems	CO2	K2	7
		OR			
6.	a).	Explain Information Quality- Models?	CO3	K4	7
	b).	Classify models are normally embedded in DSS?	CO3	K2	7
		UNIT - IV			
7.	a).	Classify of Decision Support Systems?	CO2	K2	7
	b).	Describe the DSS Categories with examples?	CO1	K1	7
		OR			
8.	a).	Describe DSS Hierarchy	C02	K1	7
	b).	Discuss the Matching DSS to the Decision Type.	CO4	K2	7
		UNIT - V			
9.	a).	Explain DSS Architecture ?	CO4	K2	7
	b).	Describe the DSS Software Categories ?	CO3	K1	7
		OR			
10.	a).	Describe the DSS and Clint/Server Computing?	CO4	K1	7
	b).	Classify Programming Languages DSS?	CO3	K2	7

[B 17 BS 4201]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

IV B. Tech II Semester (R17) Regular Examinations

MANAGEMENT AND ORGANIZATIONAL BEHAVIOR

Common to CSE & IT

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 70 M**

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

All questions carry equal marks

*****

		CO	KL	M
	UNIT-I			
1.	Define Management and Explain its functions	**CO1**	**K2**	**14**
	OR			
2.	Explain the principles of Management as outlined by Henry Fayol	**CO1**	**K2**	**14**
	UNIT-II			
3.	Describe the functions performed by Human Resource Manager	**CO2**	**K2**	**14**
	OR			
4.	Define Marketing, Explain in detail about Marketing mix	**CO2**	**K2**	**14**
	UNIT-III			
5.	Explain about the importance of Mission, Goal, Objective and Strategy	**CO3**	**K2**	**14**
	OR			
6.	What do you understand by SWOT analysis? Explain how it can be carried out.	**CO3**	**K2**	**14**
	UNIT-IV			
7.	What is Organisational Change and describe about the types of change	**CO4**	**K2**	**14**
	OR			

8.	What is Motivation and Explain about Maslows Human Need Theory	**CO4**	**K2**	**14**
	UNIT-V			
9.	Explain about the consequences of conflicts in an organisation	**CO5**	**K2**	**14**
	OR			
10.	What is Stress & Describe about methods of managing Stress	**CO5**	**K2**	**14**

[B17 IT 4201]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

IV B. Tech II Semester (R17) Regular Examinations

CLOUD COMPUTING

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 70 M**

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

All questions carry equal marks

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			CO	KL	M
UNIT - I					
1.	a).	What is Cloud Computing? Explain about system models for distributed and cloud computing?	CO1	K2	8
	b).	Describe the characteristics and benefits of cloud computing?	CO1	K2	6
OR					
2.	a).	What is virtualization? What are the characteristics of virtualized environments?	CO1	K2	7
	b).	Explain different kinds of virtualization techniques?	CO1	K2	7
UNIT - II					
3.	a).	Explain about different kinds of cloud computing service models	CO2	K2	8
	b).	Differentiate public cloud and private cloud?	CO2	K3	6
OR					
4.	a).	Write about cloud security management?	CO2	K2	7
	b).	Explain about Service oriented Architecture with neat diagram?	CO2	K2	7
UNIT - III					
5.	a).	Differentiate Cloud and Grid Platforms?	CO3	K3	6
	b).	Explain about distributed programming paradigm?	CO3	K2	8
OR					
6.	a).	Write about Google App Engine?	CO3	K2	6
	b).	Differentiate Amazon AWS and Microsoft Azure?	CO3	K3	8
UNIT - IV					
7.	a).	Explain about Policies and Mechanisms for Resource Management?	CO3	K2	7
	b).	Write about Two Level Resource Allocation Architecture?	CO3	K3	7
OR					
8.	a).	Write about Scheduling MapReduce Applications Subject to Deadlines?	CO4	K2	7
	b).	Differentiate between Fair Queuing, Start Time Fair Queuing?	CO4	K4	7
UNIT - V					
9.	a).	Write about different storage models?	CO4	K2	6
	b).	Differentiate between distributed file systems and parallel file systems.?	CO4	K4	8
OR					
10.	a).	Describe the architecture of Google file system?	CO4	K3	7
	b).	Explain about Amazon Simple Storage Service (S3)?	CO4	K3	7

[B17 IT 4202]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

IV B. Tech II Semester (R17) Regular Examinations

CYBER SECURITY

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 70 M**

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

All questions carry equal marks

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			CO	KL	M
UNIT – I					
1.	a).	Describe risk management processes in detail.	CO1	K1	7M
	b).	Explain about Cybercrime Era.	CO1	K2	7M
OR					
2.	a).	Explain about global perspective on cybercrimes.	CO1	K2	7M
	b).	Explain about Cybercrime and the Indian ITA2000	CO1	K1	7M
UNIT – II					
3.	a).	Explain how Cyber stalking can be reduced.	CO1	K1	7M
	b).	Describe about Botnets.	CO1	K2	7M
OR					
4.	a).	What is Attack Vector Cloud Computing?	CO2	K1	7M
	b).	Define cyber crime. Explain in brief about social engineering.	CO2	K3	7M
UNIT – III					
5.	a).	What is Authentication Service Security?	CO2	K1	7M
	b).	Explain different types of Cyber Attacks on Mobile/Cell Phones	CO2	K2	7M
OR					
6.	a).	What are the measures that are to be taken in Mobile Computing to avoid Cybercrimes.	CO3	K2	7M
	b).	Explain different Security Challenges Posed by Mobile Devices.	CO3	K1	7M
UNIT – IV					
7.	a).	Describe about Trojan Horses attack.	CO2	K1	7M
	b).	Explain about Phishing attacks.	CO2	K1	7M
OR					
8.	a).	What is vulnerability and explain different types of vulnerabilities.	CO1	K2	7M
	b).	Discuss about the SQL Injection in detail.	CO3	K1	7M
UNIT – V					
9.	a).	Describe The Indian IT Act	CO3	K1	7M
	b).	Explain digital evidence collection procedure in detail	CO3	K2	7M
OR					
10.	a).	Explain the Cybercrime Scenario in India	CO3	K2	7M
	b).	Explain why Digital Signatures are used in Cyber security.	CO3	K2	7M

[B17IT4203]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

IV B. Tech IInd Semester (R17) Regular Examinations

ARTIFICIAL NEURAL NETWORKS

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 75 M**

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

All questions carry equal marks

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			CO	KL	M
		UNIT – I			
1.	a).	Discuss how neural network are used for function approximation	**CO1**	**K2**	**7**
	b).	Draw and explain the Typical classes of network architectures.	**CO1**	**K2**	**8**
		OR			
2.	a).	Draw the structure of a biological Neuron and explain in detail.	**CO1**	**K2**	**7**
	b).	Apply two-layer network is to have four inputs and six outputs. The range of the outputs is to be continuous between 0 and 1. What can you talk about the network architecture? Specifically, a) How many neurons are required in each layer? b) What kinds of transfer functions can be used in each layer?	**CO1**	**K3**	**8**
		UNIT – II			
3.	a).	Consider the following ortho normal sets of key patterns, applied to a correlation matrix memory $x_1 = [1,0,0,0]^T$ $x_2 = [0,1,0,0]^T$ $x_3 = [0,0,1,0]^T$ and respective stored patterns are $y_1 = [5,1,0]^T$ $y_2 = [-2,1,6]^T$ $y_3 = [-2,4,3]^T$ Calculate the memory matrix.	**CO1**	**K3**	**8**
	b).	Discuss about Hebbian learning	**CO1**	**K2**	**7**
		OR			
4.	a).	Write in detail about error-detection learning.	**CO1**	**K2**	**7**
	b).	Explain in detail about competitive learning.	**CO1**	**K2**	**8**
		UNIT – III			
5.	a).	Construct linearly separable patterns in single layer perceptron with an example.	**CO2**	**K3**	**8**
	b).	Apply Bayes' classifiers in single layer perceptron.	**CO2**	**K3**	**7**
		OR			
6.	a).	Explain about single layer perceptron and limitations of perceptron's.	**CO2**	**K2**	**8**
	b).	Discuss how perceptron convergence.	**CO2**	**K2**	**7**
		UNIT – IV			
7.	a).	Build a learning algorithm with a schematic two-layer feed forward neural network.	**CO3**	**K3**	**8**
	b).	What are the steps involved in the back-propagation algorithm? Explain.	**CO3**	**K2**	**7**
		OR			
8.	a).	Explain signal flow graphical summary of back propagation learning showing forward pass.	**CO3**	**K2**	**8**
	b).	Explain about the designing issues to improve the back propagation.	**CO3**	**K2**	**7**

UNIT – V					
9.	a).	Explain about how to design and training the Radial Basis Function(RBF) Networks.	**CO3**	**K2**	**8**
	b).	Discuss about Regularization in RBF Networks.	**CO3**	**K2**	**7**
OR					
10.	a).	State and explain the approximation properties of RBF.	**CO3**	**K2**	**7**
	b).	Differentiate between the Regularization and RBF Networks.	**CO3**	**K3**	**8**

[B17IT4204]

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)

IV B. Tech IInd Semester (R17) Regular Examinations

SOFTWARE QUALITY ASSURANCE

MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 70 M**

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

All questions carry equal marks

			CO	KL	M
		UNIT - I			
1.	a).	Distinguish between software errors, software faults and software failures.	CO1	K3	7
	b).	What is SQA plan? Illustate various steps to develop and implement it.	CO1	K3	7
		OR			
2.	a).	Distinguish and explain the differences between software quality assurance and quality control.	CO1	K3	7
	b).	Identify the factors that affect the extent of the contract review	CO1	K3	7
		UNIT – II			
3.	a).	Compare the objectives and participants of the three team review methods.	CO1	K3	7
	b).	Illustrate testing objectives.	CO1	K3	7
		OR			
4.	a).	List the main types of automated software tests.	CO1	K3	7
	b).	List the infrastructure tools that support maintenance quality assurance.	CO1	K3	7
		UNIT – III			
5.	a).	Explain the difference between procedures and work instructions	CO2	K3	7
	b).	List the activities involved in maintaining templates and checklists.	CO2	K3	7
		OR			
6.	a).	List the main components of a certification program	CO2	K3	7
	b).	Compare defect correction and corrective and preventive actions	CO2	K3	7
		UNIT - IV			
7.	a).	Explain the implementation issues associated with project progress control.	CO2	K3	7
	b).	Compare the KLOC and function points measures for the size of a software system.	CO2	K3	7
		OR			
8.	a).	Explain the reasons for limitation characterizing some software quality metrics.	CO2	K3	7
	b).	Describe the process of defining a new software quality metric	CO2	K3	7
		UNIT - V			
9.		Explain the requirements needed by ISO 9000 quality system standard for a software organization	CO3	K4	14
		OR			
10.		Illustrate the various levels of Capability Maturity Model and Key Process Areas (KPA) with neat diagram.	CO3	K4	14