					Course Code: B20HS4101
		SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)			**R20**
		IV B.Tech I Semester MODEL QUESTION PAPER			
		UNIVERSAL HUMAN VALUES-2: UNDERSTANDING HARMONY			
		(Common to AIDS, CSBS, CSE, IT & ME)			
Time: 3 Hrs.					**Max. Marks:70M**
		Answer **ONE Question** from **EACH UNIT**			
		All questions carry equal marks			
		Assume suitable data if necessary			
			CO	**KL**	**M**
		UNIT-I			
1	**a).**	Discuss natural acceptance	**1**	**2**	**7**
	b).	Differentiate prosperity and deprivation	**1**	**2**	**7**
		OR			
2	**a).**	Write a note on physical facilities	**1**	**2**	**7**
	b).	Deliberate the right understanding in perspective to self-exploration.	**1**	**2**	**7**
		UNIT-II			
3	**a).**	Illustrate coexistence of "I" and "Body ".	**2**	**2**	**7**
	b).	Explain doer, seer and enjoyer.	**2**	**2**	**7**
		OR			
4	**a).**	Discuss Characteristic activities of Harmony with "I".	**2**	**2**	**7**
	b).	Explain Sanyam and Health.	**2**	**2**	**7**
		UNIT-III			
5	**a).**	Write a note on human-human relationship as regarding harmony.	**3**	**2**	**7**
	b).	Differentiate intention and competence.	**3**	**2**	**7**
		OR			
6	**a).**	Discuss salient values in relationship.	**3**	**2**	**7**
	b).	Illustrate universal Harmonious Society - an Undivided society.	**3**	**2**	**7**
		UNIT-IV			
7	**a).**	Discuss orders of life in nature and its significance self-regulation of individual	**4**	**2**	**14**
		OR			
8	**a).**	Illustrate existence of human being as coexistence with universe in perspective of space	**4**	**2**	**14**

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		UNIT-V			
9	**a).**	Discuss importance of professional competence for augmenting universal human order.	**5**	**3**	**14**
		OR			
10	**a).**	Case study of typical holistic technologies.	**5**	**3**	**7**
	b).	Role of engineer in promoting harmony in society	**5**	**3**	**7**

CO-COURSE OUTCOME **KL-KNOWLEDGE LEVEL** **M-MARKS**

NOTE : Questions can be given as A,B splits or as a single Question for 14 marks

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		Course Code: B20CS4101			
		SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)			**R20**
		IV B.Tech I Semester MODEL QUESTION PAPER			
		CLOUD COMPUTING			
		Computer Science & Engineering			
Time: 3 Hrs.					**Max. Marks:70M**
		Answer **ONE Question** from **EACH UNIT**			
		All questions carry equal marks			
		Assume suitable data if necessary			
			CO	**KL**	**M**
		UNIT-I			
1	**a).**	List out & explain the different types of cloud computing service models.	**1**	**2**	**7**
	b).	Explain Cloud essential Characteristics	**1**	**2**	**7**
		OR			
2	**a).**	Describe Cloud Computing Architecture	**1**	**2**	**7**
	b).	Explain Cloud deployment models	**1**	**2**	**7**
		UNIT-II			
3	**a).**	Illustrate the relationship between virtualization and cloud computing.	**2**	**3**	**7**
	b).	Interpret How to Implement Levels of Virtualization	**2**	**3**	**7**
		OR			
4	**a).**	Describe Virtualization Tools and Mechanisms.	**2**	**2**	**7**
	b).	Dramatize how Virtualization used in Data-Center Automation.	**2**	**3**	**7**
		UNIT-III			
5	**a).**	Classify and demonstrate the Feedback on Dynamic Thresholds	**3**	**3**	**7**
	b).	Discriminate the Policies and Mechanisms for Resource Management	**3**	**3**	**7**
		OR			
6	**a).**	Demonstrate the Resource Bundling	**3**	**2**	**7**
	b).	Contrast the Scheduling Algorithms for Computing Clouds	**3**	**3**	**7**
		UNIT-IV			
7	**a).**	Demonstrate the storage models in Cloud Computing.	**4**	**2**	**7**
	b).	Explain Google file system with Diagram.	**4**	**2**	**7**
		OR			
8	**a).**	Interpret the security risks associated with cloud security.	**4**	**2**	**7**
	b).	Explain how virtualization can help you avoid security issues	**4**	**2**	**7**

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		UNIT-V			
9	**a).**	Illustrate the Map reduce Design in Hadoop.	**5**	**3**	**7**
	b).	Dramatize the Instance Programming on Amazon AWS.	**5**	**3**	**7**
		OR			
10	**a).**	Demonstrate the Federation levels in the Cloud	**5**	**3**	**7**
	b).	Interpret the Federated Services and Applications	**5**	**3**	**7**

CO-COURSE OUTCOME **KL-KNOWLEDGE LEVEL** **M-MARKS**

NOTE : Questions can be given as A,B splits or as a single Question for 14 marks

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		Course Code: B20CS4102			
		SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)			**R20**
		IV B.Tech I Semester MODEL QUESTION PAPER			
		NEURAL NETWORKS AND SOFT COMPUTING			
		Computer Science & Engineering			
Time: 3 Hrs.					**Max. Marks:70**
		Answer **ONE Question** from **EACH UNIT**			
		All questions carry equal marks			
		Assume suitable data if necessary			
			CO	**KL**	**M**
		UNIT-I			
1	**a).**	List out and explain various types of soft computing techniques.	**1**	**2**	**7**
	b).	Define and explain the meaning of the term "Artificial Intelligence"?	**1**	**2**	**7**
		OR			
2	**a).**	Define soft computing. Distinguish between soft computing and hard computing.	**1**	**2**	**7**
	b).	Explain the rules of inference in AI.	**1**	**2**	**7**
		UNIT-II			
3	**a).**	Explain with neat diagram supervised and unsupervised learning in Neural Networks.	**2**	**2**	**7**
	b).	"Neuron inhibition depends on activation function" Justify this statement with different types of activation functions.	**2**	**2**	**7**
		OR			
4	**a).**	Explain the taxonomy of artificial neural network architectures.	**2**	**2**	**7**
	b).	Define and explain perceptron in detail with a neat sketch.	**2**	**2**	**7**
		UNIT-III			
5	**a).**	Explain the Membership function, fuzzy set, and fuzzy if-then Rules.	**3**	**2**	**7**
	b).	Explain Fuzzy Logic, fuzzy set. Briefly.	**3**	**2**	**7**
		OR			
6	**a).**	Define Fuzzification and Defuzzification in fuzzy logic system components.	**3**	**2**	**4**
	b).	Differentiate Fuzzification and Defuzzification.	**3**	**2**	**10**
		UNIT-IV			
7	**a).**	Explain Genetic Algorithm in term of individual, gene, fitness, population, encoding, selection, crossover, mutation?	**4**	**2**	**7**

	b).	Explain Genetic algorithm in terms of Reproduction, Selection, Evaluation and Replacement.	**4**	**2**	**7**
		OR			
8	**a).**	How Genetic Algorithm is different from traditional algorithms? Explain.	**4**	**2**	**7**
	b).	Discuss Crossover operation in GA and its types?	**4**	**2**	**7**
		UNIT-V			
9	**a).**	Explain the Fuzzy back propagation network with a neat diagram.	**5**	**2**	**7**
	b).	Explain the Adaptive neuro fuzzy inference systems.	**5**	**2**	**7**
		OR			
10	**a).**	Explain the following terms (a) Cooperative Neural Fuzzy Systems (b) General Neuro Fuzzy Hybrid Systems	**5**	**2**	**7**
	b).	Explain the Genetic-fuzzy hybrid systems in detail.	**5**	**2**	**7**

CO-COURSE OUTCOME **KL-KNOWLEDGE LEVEL** **M-MARKS**

NOTE : Questions can be given as A,B splits or as a single Question for 14 marks

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				Course Code: B20CS4103	
		SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)		**R20**	
		IV B.Tech I Semester MODEL QUESTION PAPER			
		AD-HOC AND SENSOR NETWORKS			
		Computer Science & Engineering			
Time: 3 Hrs.				**Max. Marks:70**	
		Answer **ONE Question** from **EACH UNIT**			
		All questions carry equal marks			
		Assume suitable data if necessary			
			CO	**KL**	**M**
		UNIT-I			
1	**a).**	List the characteristics of adhoc wireless network.	**1**	**2**	**7**
	b).	Differentiate between cellular network and adhoc Network.	**1**	**2**	**7**
		OR			
2	**a).**	What are the challenging issues in MANETs?	**1**	**2**	**7**
	b).	List the applications of MANETs.	**1**	**2**	**7**
		UNIT-II			
3	**a).**	Discuss about the design goals of MAC protocol for adhoc networks.	**2**	**2**	**7**
	b).	Classify and explain adhoc wireless network based on routing topology.	**2**	**2**	**7**
		OR			
4	**a).**	Explain the major challenges that a routing protocol designed for adhoc wireless networks face.	**2**	**2**	**7**
	b).	Classification of Transport Layer Protocols.	**2**	**2**	**7**
		UNIT-III			
5	**a).**	What is energy efficient routing? Present an outline of energy efficient routing in wireless sensor networks.	**3**	**3**	**7**
	b).	Outline the issues and challenges in security provisioning for wireless sensor networks.	**3**	**3**	**7**
		OR			
6	**a).**	Define a black hole attack and discuss its possible solutions.	**3**	**3**	**7**
	b).	Define a Data Tampering and discuss its possible solutions.	**3**	**3**	**7**
		UNIT-IV			
7		Illustrate the challenges and the required mechanisms of a Wireless Sensor network.	**4**	**3**	**14**
		OR			

8		Interpret a suitable routing technique more suitable for WSN. Narrate the reasons for it	**4**	**3**	**14**
		UNIT-V			
9	**a).**	Outline the features of Tiny OS for wireless sensor networks.	**5**	**3**	**7**
	b).	Present a wireless sensor network design that can be used for surveillance and environment monitoring in a zoo. A zoo is a facility in which animals are confined within enclosures, displayed to the public, and in which they may also be bred. State the functional requirements you are considering.	**5**	**3**	**7**
		OR			
10	**a).**	Outline the features of node-level simulators for wireless sensor networks.	**5**	**3**	**7**
	b).	Convert the following C code to NS2: in t a, b, c; a=5; b=6; c= a +b.	**5**	**3**	**7**

CO-COURSE OUTCOME **KL-KNOWLEDGE LEVEL** **M-MARKS**

NOTE : Questions can be given as A,B splits or as a single Question for 14 marks

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			Course Code: B20CS4104		
		SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)			**R20**
		IV B.Tech I Semester MODEL QUESTION PAPER			
		CYBER SECURITY & FORENSICS			
		Computer Science & Engineering			
Time: 3 Hrs.					**Max. Marks:70**
		Answer **ONE Question** from **EACH UNIT**			
		All questions carry equal marks			
		Assume suitable data if necessary			
			CO	**KL**	**M**
		UNIT-I			
1	**a).**	Who are Cyber Criminals? Explain the different categories of Cyber Criminals	**1**	**2**	**7**
	b).	Explain the Security Challenges Posed by Mobile Devices	**1**	**2**	**7**
		OR			
2	**a).**	Write a short note on i) Cybercafé ii) Cyber stalking	**1**	**2**	**7**
	b).	Define attack and explain it in detail along with an example	**1**	**2**	**7**
		UNIT-II			
3	**a).**	Explain Distributed Denial of service (DDOS) Attack in detail	**2**	**2**	**7**
	b).	Explain about password cracking mechanism in detail	**2**	**2**	**7**
		OR			
4	**a).**	List and explain various attacks on wireless networks.	**2**	**2**	**7**
	b).	What kinds of attacks are possible on mobile/cell phones? Explain with example	**2**	**2**	**7**
		UNIT-III			
5	**a).**	Briefly Explain the generalize the roles of E-mail in investigation	**3**	**2**	**7**
	b).	Write a short notes on the Digital Evidence Collection, Evidence Preservation	**3**	**2**	**7**
		OR			
6	**a).**	Demonstrate detailed about using specialized E-mail Forensics Tools	**3**	**3**	**14**
		UNIT-IV			
7	**a).**	Analyze briefly about the Forensic Duplication and Investigation	**4**	**4**	**14**
		OR			
8	**a).**	Analyze traditional Computer crimes associated with Cyber Forensics.	**4**	**4**	**14**

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		UNIT-V			
9	**a).**	Explain about jurisdiction in cyberspace	**5**	**2**	**7**
	b).	Explain about the weakness in information Technology Act in Cyber Crime Legal.	**5**	**2**	**7**
		OR			
10	**a).**	Illustrate the Amendments to the Indian IT Act?	**5**	**3**	**7**
	b).	Explain the Challenges to Indian Law and Cybercrime Scenario in India	**5**	**2**	**7**

CO-COURSE OUTCOME **KL-KNOWLEDGE LEVEL** **M-MARKS**

NOTE : Questions can be given as A,B splits or as a single Question for 14 marks

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			Course Code: B20CS4105		
SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)					**R20**
IV B.Tech I Semester MODEL QUESTION PAPER					
DEEP LEARNING TECHNIQUES					
Computer Science & Engineering					
Time: 3 Hrs.					**Max. Marks:70**
Answer **ONE Question** from **EACH UNIT**					
All questions carry equal marks					
Assume suitable data if necessary					
			CO	**KL**	**M**
		UNIT-I			
1	**a).**	Distinguish supervised vs unsupervised learning	**1**	**2**	**7**
	b).	Explain about cross-validation	**1**	**2**	**7**
		OR			
2	**a).**	What is Dimensionality reduction? Explain	**1**	**2**	**7**
	b).	Explain about over fitting and under fitting	**1**	**2**	**7**
		UNIT-II			
3	**a).**	Illustrate Deep feed forward networks	**2**	**2**	**7**
	b).	Explain about early stopping	**2**	**2**	**7**
		OR			
4	**a).**	Explain about Various Activation Functions	**2**	**3**	**7**
	b).	What is Regularization for Deep learning? Explain Drop out	**2**	**2**	**7**
		UNIT-III			
5	**a).**	Illustrate Convolutional Network	**3**	**2**	**7**
	b).	What is max pooling? Explain	**3**	**2**	**7**
		OR			
6	**a).**	Illustrate Recurrent Neural Networks	**3**	**2**	**7**
	b).	Explain about Long Short-Term Memory	**3**	**2**	**7**
		UNIT-IV			
7	**a).**	What are Auto encoders? Explain	**4**	**2**	**7**
	b).	Explain about stochastic gradient descent	**4**	**2**	**7**
		OR			
8	**a).**	What is de noising? Explain	**4**	**2**	**7**
	b).	What is Optimization for Deep Learning? Explain Adam	**4**	**2**	**7**

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		UNIT-V			
9	**a).**	Illustrate Alex net architecture	**5**	**2**	**7**
	b).	Analyze how to improve performance of a model with Transfer learning	**5**	**3**	**7**
		OR			
10	**a).**	Illustrate Res Net architecture	**5**	**2**	**7**
	b).	Write about Deep Generative Models	**5**	**3**	**7**

CO-COURSE OUTCOME **KL-KNOWLEDGE LEVEL** **M-MARKS**

NOTE : Questions can be given as A,B splits or as a single Question for 14 marks

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		Course Code: B20CS4106			
		SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)			**R20**
		IV B.Tech I Semester MODEL QUESTION PAPER			
		SOCIAL NETWORKS & SEMANTIC WEB			
		Computer Science & Engineering			
Time: 3 Hrs.					**Max. Marks:70**
		Answer **ONE Question** from **EACH UNIT**			
		All questions carry equal marks			
		Assume suitable data if necessary			
			CO	**KL**	**M**
		UNIT-I			
1	**a).**	Explain in detail about Thinking and Intelligent Web Applications	**1**	**3**	**7**
	b).	What is Semantic Web? Explain with an example.	**1**	**3**	**7**
		OR			
2	**a).**	Discuss in detail about the Berners-Lee www.	**1**	**3**	**7**
	b).	Explain clearly the concept of Logic on the semantic Web.	**1**	**3**	**7**
		UNIT-II			
3	**a).**	Explain Ontologies and their role in the semantic web.	**2**	**3**	**7**
	b).	Analyze Resource Description Framework	**2**	**3**	**7**
		OR			
4	**a).**	Classify the Ontology Web Language	**2**	**3**	**7**
	b).	Discuss in detail about the XML Schema	**2**	**3**	**7**
		UNIT-III			
5	**a).**	Illustrate Ontology Development Tools	**3**	**3**	**7**
	b).	Develop the Ontology Methods	**3**	**3**	**7**
		OR			
6	**a).**	Develop the Ontology Libraries and Ontology Mapping	**3**	**3**	**7**
	b).	Explain in detail about Constructing Ontology	**3**	**3**	**7**
		UNIT-IV			
7	**a).**	Contrast Semantic Web applications and services	**4**	**3**	**7**
	b).	Examine the Creating an OWL-S Ontology for Web Services	**4**	**3**	**7**
		OR			
8	**a).**	Examine the Semantic Bioinformatics	**4**	**3**	**7**
	b).	Distinguish Web Search Agents and Semantic Methods	**4**	**3**	**7**

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		UNIT-V			
9	**a).**	Explain development of the social networks analysis	**5**	**3**	**7**
	b).	Illustrate Blogs and Online Communities	**5**	**2**	**7**
		OR			
10	**a).**	Outline the Electronic Sources for Network Analysis	**5**	**2**	**7**
	b).	Explain Building Semantic Web Applications with social network features.	**5**	**3**	**7**

CO-COURSE OUTCOME **KL-KNOWLEDGE LEVEL** **M-MARKS**

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		Course Code: B20CS4107			
		SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)			**R20**
		IV B.Tech I Semester MODEL QUESTION PAPER			
		COMPUTER VISION			
		Computer Science & Engineering			
Time: 3 Hrs.					**Max. Marks:70**
		Answer **ONE Question** from **EACH UNIT**			
		All questions carry equal marks			
		Assume suitable data if necessary			
			CO	**KL**	**M**
		UNIT-I			
1	**a).**	Explain Geometric Primitives and Transformation	**1**	**2**	**7**
	b).	Discuss about Fourier Transforms	**1**	**2**	**7**
		OR			
2	**a).**	Illustrate Pyramids and Wavelets	**1**	**2**	**7**
	b).	Explain Photometric Image Formation	**1**	**2**	**7**
		UNIT-II			
3	**a).**	Demonstrate Split and Merge	**2**	**2**	**7**
	b).	Classify 2D and 3D Feature-based Alignment	**2**	**2**	**7**
		OR			
4	**a).**	Discuss about Mean Shift and Mode Finding	**2**	**2**	**7**
	b).	Explain Geometric Intrinsic Calibration	**2**	**2**	**7**
		UNIT-III			
5	**a).**	Demonstrate the Two-frame Structure from Motion	**3**	**2**	**7**
	b).	Describe the Geometric Intrinsic Calibration	**3**	**2**	**7**
		OR			
6	**a).**	Outline the Constrained Structure and Motion	**3**	**2**	**7**
	b).	Discuss about Normalized Cuts	**3**	**2**	**7**
		UNIT-IV			
7	**a).**	Explain Two-frame Structure from Motion	**4**	**2**	**7**
	b).	Discuss the Parametric Motion	**4**	**2**	**7**
		OR			
8	**a).**	Demonstrate Constrained Structure and Motion	**4**	**2**	**7**
	b).	Illustrate the Spline-based Motion	**4**	**2**	**7**

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		UNIT-V			
9	**a).**	Outline the Point based Representation	**5**	**3**	**7**
	b).	Construct the Active Range Finding	**5**	**3**	**7**
		OR			
10	**a).**	Discuss the Video-based Rendering	**5**	**3**	**7**
	b).	Develop the Model-based Reconstruction	**5**	**3**	**7**

CO-COURSE OUTCOME **KL-KNOWLEDGE LEVEL** **M-MARKS**

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		Course Code: B20CS4109			
		SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)			**R20**
		IV B.Tech I Semester MODEL QUESTION PAPER			
		BLOCK CHAIN TECHNOLOGIES			
		Computer Science & Engineering			
Time: 3 Hrs.					**Max. Marks:70**
		Answer **ONE Question** from **EACH UNIT**			
		All questions carry equal marks			
		Assume suitable data if necessary			
			CO	**KL**	**M**
		UNIT-I			
1	**a).**	Differentiate Trust Currency and Crypto currency.	**1**	**2**	**7**
	b).	Explain how the landscape of digitalization was changing.	**1**	**2**	**7**
		OR			
2	**a).**	Explain the Challenges Articulated, Block chain.	**1**	**2**	**7**
	b).	ExplainStages in Block chain Evolution.	**1**	**2**	**7**
		UNIT-II			
3	**a).**	What is a Hashing and Explain it with illustrating an Example	**2**	**3**	**7**
	b).	Explain the Digital Identity Verification with an example.	**2**	**2**	**7**
		OR			
4	**a).**	Explain Public key cryptosystems.	**2**	**2**	**7**
	b).	Explain Block chain Neutrality.	**2**	**2**	**7**
		UNIT-III			
5	**a).**	Describe Bit coin Block chain and scripts.	**3**	**3**	**7**
	b).	Discuss Approach for Block chain Genomics.	**3**	**2**	**7**
		OR			
6	**a).**	Explain Use cases of Bit coin Block chain scripting language in micropayment.	**3**	**2**	**7**
	b).	Describe Block chain Digital Identity verification	**3**	**2**	**7**
		UNIT-IV			
7	**a).**	Describe Currency Multiplicity, Demurrage currency.	**4**	**2**	**7**
	b).	Discuss the Byzantine Generals Problem.	**4**	**2**	**7**
		OR			
8	**a).**	Discuss in detail aboutConsensus as a distributed coordination problem.	**4**	**2**	**7**

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	b).	Explain IOTA.	**4**	**2**	**7**
		UNIT-V			
9	**a).**	Explain Scandals and Public perception.	**5**	**2**	**7**
	b).	Explain aboutUses of Block chain in E-Governance.	**5**	**2**	**7**
		OR			
10	**a).**	Explain Block chain technical challenges.	**5**	**2**	**7**
	b).	Describe how Block chain technology is used in Land Registration	**5**	**2**	**7**

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		Course Code: B20CS4110			
		SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)			**R20**
		IV B.Tech I Semester MODEL QUESTION PAPER			
		WIRELESS NETWORK SECURITY			
		Computer Science & Engineering			
Time: 3 Hrs.					**Max. Marks:70**
		Answer **ONE Question** from **EACH UNIT**			
		All questions carry equal marks			
		Assume suitable data if necessary			
			CO	**KL**	**M**
		UNIT-I			
1	**a).**	What are some of the historical wireless technologies that were commonly used before the introduction of modern wireless systems?	**1**	**2**	**7**
	b).	How has the wireless security industry evolved over the years to address new and emerging threats?	**1**	**2**	**7**
		OR			
2	**a).**	What is a man-in-the-middle (MITM) attack, and how can it be carried out on wireless networks?	**1**	**2**	**7**
	b).	What types of equipment can attackers use to compromise wireless networks, and how can organizations protect themselves from such attacks?	**1**	**2**	**7**
		UNIT-II			
3	**a).**	Analyze the most common man-in-the-middle (MITM) attacks used against wireless networks and recommend preventative measures that organizations can take	**2**	**3**	**7**
	b).	Explain how man-in-the-middle (MITM) attacks work on SSL/TLS and SSH and assess the effectiveness of various prevention measures that organizations can implement.	**2**	**3**	**7**
		OR			
4	**a).**	Evaluate the tools and techniques used by attackers to compromise wireless networks and recommend defense strategies that organizations can implement,	**2**	**3**	**7**
	b).	Analyze the potential risks associated with wireless LANs and propose a comprehensive security plan to mitigate these risks.	**2**	**3**	**7**
		UNIT-III			
5	**a).**	What are some of the key security considerations for wireless devices, and how can organizations mitigate the risks associated with wireless device use?	**3**	**2**	**7**

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	b).	What is application security, and how can organizations ensure that the applications running on their wireless devices are secure?	**3**	**2**	**7**
		OR			
6	**a).**	Evaluate the security risks that laptops pose to organizations, and design preventive measures to safeguard against these risks.	**3**	**2**	**7**
	b).	How does spread spectrum technology enhance wireless network security?	**3**	**2**	**7**
		UNIT-IV			
7	**a).**	Assess the effectiveness of Mobitex for wireless data communications, justify the need for ongoing Mobitex network development and improvement	**4**	**3**	**10**
	b).	What are some of the key security features of the Mobitex security architecture, and how do they work to protect against security threats?	**4**	**2**	**4**
		OR			
8	**a).**	Explain the differences between wireless data networks and traditional wired networks, and how Cellular Digital Packet Data (CDPD) operates as a wireless data network technology?	**4**	**3**	**8**
	b).	What is the CDPD architecture, analyze how it supports wireless data networks.	**4**	**3**	**6**
		UNIT-V			
9	**a).**	list types of wireless LANs and identify security considerations for wireless networks	**5**	**3**	**14**
		OR			
10	**a).**	Differentiate between wireless and wired network applications, categorize industries that commonly use wireless networks	**5**	**3**	**14**

CO-COURSE OUTCOME **KL-KNOWLEDGE LEVEL** **M-MARKS**

NOTE : Questions can be given as A,B splits or as a single Question for 14 marks

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			Course Code: B20CS4111		
SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)					**R20**
IV B.Tech I Semester MODEL QUESTION PAPER					
INTERNET OF THINGS					
Computer Science & Engineering					
Time: 3 Hrs.					**Max. Marks:70**
Answer **ONE Question** from **EACH UNIT**					
All questions carry equal marks					
Assume suitable data if necessary					
			CO	**KL**	**M**
		UNIT-I			
1	**a).**	Explain the Characteristics of Internet of Things.	**1**	**2**	**7**
	b).	Describe in detail about the IoT levels .	**1**	**2**	**7**
		OR			
2	**a).**	Explain in detail about the drivers behind new network Architectures.	**1**	**2**	**7**
	b).	Discuss in detail about the logical design of IoT.	**1**	**2**	**7**
		UNIT-II			
3	**a).**	Define in detail about 6LoWPAN technology.	**2**	**2**	**7**
	b).	Explain the constrained application protocol (CoAP).	**2**	**2**	**7**
		OR			
4	**a).**	Detailed discussion about Bluetooth Low Energy.	**2**	**2**	**7**
	b).	Explain in detail about MQTT communication technology.	**2**	**2**	**7**
		UNIT-III			
5	**a).**	Explain about Basic building blocks of an IOT device.	**3**	**2**	**7**
	b).	Describe in detailed about Components of Arduino board.	**3**	**2**	**7**
		OR			
6	**a).**	Explain in details about radio Frequency Identification technology.	**3**	**2**	**7**
	b).	Write a program for Arduino interface for Temperature dependent Auto cooling system.	**3**	**2**	**7**
		UNIT-IV			
7	**a).**	Explain about Data Acquiring and storage.	**4**	**2**	**7**
	b).	Describe in detailed about Integration and Enterprise Systems.	**4**	**2**	**7**
		OR			
8	**a).**	Describe about the Transaction and Business Processes.	**4**	**2**	**7**

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	b).	Explain about Managing and Storing Processes.	**4**	**2**	**7**
		UNIT-V			
9	**a).**	Explain the IoT Security Tomography and Layered Attacker model.	**5**	**2**	**7**
	b).	Illustrate in details about case study of smart irrigation system.	**5**	**2**	**7**
		OR			
10	**a).**	Explain about the Access control secure message communication.	**5**	**2**	**7**
	b).	Illustrate about Home intrusion detection.	**5**	**2**	**7**

CO-COURSE OUTCOME **KL-KNOWLEDGE LEVEL** **M-MARKS**

NOTE : Questions can be given as A,B splits or as a single Question for 14 marks

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