



MODEL QUESTION PAPER						
INTRODUCTION TO INTERNET OF THINGS						
Category: Emerging Technology Courses						
(Common to all Programs)						
Course Code	:			SEE	:	100 Marks
				SEE Duration	:	3.00 Hours

INSTRUCTIONS:

- Answer all the questions from Part-A
- Answer any 5 full questions from Part-B choosing one from each choice.(Question number 2 is compulsory)

		Marks
1.1	_____ is a wireless automatic identification technology, relying on the RF communication technology to identify objects	1
1.2	The _____ architecture provides a general software layer for global application devices	1
1.3	In three layered network, the layer which includes a variety of private networks, the Internet, mobile networks, the local area network, and the wide area network is _____	1
1.4	_____ is the study of society development, which covers economics, law, sociology, management, history, and strategies.	1
1.5	_____ sensor senses the audio which send out a sound pulse in the inaudible range. The echo from the object is processed	1
1.6	Define Actuator	1
1.7	List the types of RFID readers	1
1.8	Whether the statement is true or false The 2.4 GHz band of WiFi, provides more WiFi coverage with slower speeds.	1
1.9	The range of ZigBee is between ____ meters and ____ meters.	1
1.10	List two features of 4G	2
1.11	List two features of IPV6	2
1.12	Integration of multiple data and knowledge of objects with a consistent, accurate, and useful representation in unit IoT is called as _____	1
1.13	Multiuser orientation denotes _____ IoT has diverse orientations according to different users.	1
1.14	State two features of Resources?	2
1.15	_____ attribute inter connects Social world, Physical World & Cyber World.	2
1.16	Which architecture will provides a software platform with a set of Web services as a service-oriented architecture for Internet of Things?	1



2 a.	Explain brief the following related concepts of IoT. (a) RFID (2) EPC (c) M2M (d) Cloud Computing (e) CPS	10
b.	Discuss the three-layered architecture of Unit IoT with social attributes?	6
3a.	Discuss the classification of Sensors with respect to sensed data	6
b.	Summarize the usage of RFID and Bluetooth with respect to home automation system?	4
c.	Describe the development of mobile communication technology?	6
OR		
4 a.	Discuss the classification of actuators?	4
b.	Summarize the usage of ZigBee and Infrared data transmission with respect to River Navigation system?	6
c.	Discuss the four basic datamining models that can be applied to unit IoT?	6
5 a.	Illustrate the characteristics of Local IoT in smart city application?	6
b.	Discuss the two topology-based management schemes in National IoT?	6
c	Discuss the architecture of ubiquitous IoT with an example?	4
OR		
6 a.	Illustrate the characteristics of Industrial IoT for Smart Grid Application?	6
b.	Examine the characteristics of global logistics IoT	6
c.	Discuss Local IoT Concept?	4
7 a.	What are the different features of Resources?	4
b	What is the different resource addressing schemes available in the Internet?	6
c	Discuss the different resource discovery challenges?	1
OR		
8 a.	Discuss the different object coding for ID and nID objects	4
b	Discuss the two basic resource discovery mechanism in P2P systems?	6
c	Discuss the different schemes in Resource Management in Ubiquitous IoT?	6
9 a	Discuss the different security challenges in U2IoT	6
b	Discuss the Active Phase entity activity cycle-based security solution in U2IoT	6
c	Illustrate the Hybrid Authentication scheme for Smart Home Automation	4
OR		
10 a	Discus the Security Framework for U2IoT	6
b	Discuss the Post active Phase entity activity cycle-based security solution in U2IoT.	6
c	Illustrate the Hierarchical Authentication scheme for Airport Management system.	4