MODEL QUESTION PAPER
6132A- Internet of Things

Time: 3 hours Maximum Marks: 75

PART A

I. Answer all questions in one word or one sentence.

(9x1=9 Marks)

1	IoT stands for …….	M1.01	R
2	The layer providing wireless connection in IoT devices.	M1.02	U
3	Name the protocol used to link all devices in IoT.	M2.01	R
4	MQTT stands for……	M2.02	R
5	The size of an IP address in IPV6?	M2.04	R
6	IaaS stands for ……	M3.01	R
7	What is AWS?	M3.04	R
8	Electric motor protection has which sensor?	M4.01	U
9	A list can be created using ……function.	M4.04	U

PART B

II. Answer any 8 questions from the following.

(8x3=24 Marks)

1	What are the key features of Internet of Things?	M1.01	U
2	What are the transport layer protocols in IoT?	M2.01	U
3	What is CoAP?	M2.02	R
4	Explain IPV6 header format?	M2.04	U
5	What is URI?	M2.05	U

6	What are the advantages of cloud computing?	M3.01	U
7	Explain cloud deployment model?	M3.01	U
8	Explain any two cloud service providers?	M3.03	U
9	What are the advantages of fog computing?	M3.04	R
10	What is a tuple? How two tuples are joined together in Python?	M4.04	R

PART C

III. Answer all the questions from the following.

(6x7=42 Marks)

1	a) Explain the classification of IoT based on complexity to build and operate?	M1.04	U
	OR		
2	b) Explain Layered architecture of IoT?	M1.02	U
3	a) Explain different IoT enabling technologies?	M1.03	U
	OR		
4	b) Explain the characteristics of IoT?	M1.02	U
5	a) Explain the messaging protocols in IoT?	M2.01	U
	OR		
6	b) Explain IPV4 and classful addressing?	M2.04	U
7	a) What is the role of hypervisor in cloud?	M3.02	U
	OR		
8	b) Which are the different types of fog computing?	M3.04	A
9	a) Explain the various control structures used in Python?	M4.04	A
	OR		
10	b) Compare the features of embedded computing boards –	M4.02	U

	Arduino and Node MCU?		
11	a) Explain the role of actuators in IoT with suitable example?	M4.01	A
	OR		
12	b) What are the steps to interface Raspberry PI with sensor? How to interface IR sensor sensor with Raspberry PI?	M4.05	U