

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name: Internet of Things and Embedded System

Subject Code: 4TE08ITE1

Branch: B.Tech (CE, IT)

Semester: 8

Date: 18/04/2019

Time: 10:30 To 01:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1	Attempt the following questions:	(14)
a)	What is the difference between the (IoT) and the sensor commercial enterprise?	1
b)	Write the difference between artificial intelligence and internet of things.	1
c)	Which function is used to convert a json text into an object?	1
d)	What are the important components of an internet of things?	1
e)	What are the benefits of json over xml?	1
f)	What do you mean by open-source hardware?	1
g)	How does the internet of things (IoT) work?	1
h)	What risks should be considered in the internet of everything?	1
i)	Is the internet of everything a cisco or ibm architecture or trademark?	1
j)	What is dtd?	1
k)	Which function will convert a javascript object to a json string?	1
l)	Write down a full form of lte?	1
m)	Which sensor is used to measure sound levels and convert that information into digital or analog data signal?	1
n)	What is a sketch?	1

Attempt any four questions from q-2 to q-8

Q-2	Attempt all questions	(14)
a)	Explain the architecture of the internet of things.	(07)
b)	Explain four aspects in one's business to master IoT.	(07)
Q-3	Attempt all questions	(14)
a)	What are fp7 projects? How these projects are helpful in implementing IoT systems?	(07)
b)	Explain security concerns for industry.	(07)
Q-4	Attempt all questions	(14)
a)	What is prototyping? Explain different types of prototyping?	(07)
b)	What are the main challenges of internet of things (IoT)?	(07)



- Q-5** **Attempt all questions** **(14)**
- a) What are the major privacy and security issues in case of internet of things (IoT)? **(07)**
 - b) What are the important components that exist in the internet of things? Discuss. **(07)**
- Q-6** **Attempt all questions** **(14)**
- a) Explain the structure of xml document. **(07)**
 - b) Define m2m. Explain reasons of shifting from m2m to IoT. **(07)**
- Q-7** **Attempt all questions** **(14)**
- a) How does an internet of things conserve the electric energy? Discuss with a suitable case scenario. **(07)**
 - b) Explain functional view, information view, deployment and operational view, other relevant architectural views of IoT reference architecture. **(07)**
- Q-8** **Attempt all questions** **(14)**
- a) Explain security, privacy and trust in IoT-data-platforms for smart cities. **(07)**
 - b) What is middleware? Explain gamba adaptive middleware **(07)**

