PAPER ID-311542

Roll No:

B.TECH
(SEM I) THEORY EXAMINATION 2020-21
EMERGING TECHNOLOGY FOR ENGINEERING

Time: 3 Hours   *Total Marks: 100*

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1.   Attempt *all* questions in brief.

Q no.	Question	Marks	CO
a.	Define IoT.	2	1
b.	What is Internet?	2	1
c.	What is database?	2	2
d.	Why internet is necessary for cloud computing?	2	2
e.	List any two cryptocurrencies.	2	3
f.	Why blockchain is called decentralized?	2	3
g.	Define additive manufacturing.	2	4
h.	List different types of drones.	2	4
i.	Define Artificial intelligence.	2	5
j.	What is interface?	2	5

SECTION B

2.   Attempt any *three* of the following:

Q no.	Question	Marks	CO
a.	Define Sensors. Explain their types and use in detail.	10	1
b.	What is cloud computing? Explain its architecture in detail.	10	2
c.	Discuss in brief about the applications of Blockchain.	10	3
d.	Discuss the 3D printing process in detail.	10	4
e.	Compare and contrast 4G and 5G. How 5G will boost virtual reality?	10	5

SECTION C

3.   Attempt any *one* part of the following:

a.	Discuss layers of IoT in brief.	10	1
b.	What is smart city? Discuss its advantages over traditional city ecosystem.	10	1

4.   Attempt any *one* part of the following:

a.	Explain Cloud computing services provided by Google.	10	2
b.	How Cloud computing differs from distributed computing? Explain	10	2

5.   Attempt any *one* part of the following:

a.	What are smart contracts? Explain its features.	10	3
b.	Explain bitcoin. How it is different from traditional currency?	10	3

6.   Attempt any *one* part of the following:

a.	What are the advantages and limitations of 3D Printing?	10	4
b.	What are the regulations and procedures for becoming a drone pilot	10	4

7.   Attempt any *one* part of the following:

a.	Define BCI. How it works? What are the major challenges in BCI?	10	5
b.	What is Augmented Reality? Explain its applications in Maps & Games.	10	5