Subject Code: KMC202

PAPER ID: 4[illegible]

Roll No: | | | | | | | | | | | | | |

BTECH
(SEM II) THEORY EXAMINATION 2021-22
EMERGING TECHNOLOGY FOR ENGINEERING

Time: 3 Hours *Total Marks: 100*

Notes:

- *Attempt all Sections and Assume any missing data.*
- *Appropriate marks are allotted to each question, answer accordingly.*

SECTION-A	Attempt All of the following Questions in brief	Marks (10X2=20)	CO
Q1(a)	What do you understand by sustainable living?		1
Q1(b)	What do you understand by smart hospital?		1
Q1(c)	How can you best secure data for transportation to the cloud?		2
Q1(d)	What is interface?		2
Q1(e)	What are the elements of the block in a blockchain?		3
Q1(f)	What do you understand by decentralization of block chain?		3
Q1(g)	Define additive manufacturing.		4
Q1(h)	Write the material is most suited for 3D printing and why?		4
Q1(i)	What is Augmented Reality?		5
Q1(j)	What do you understand by three spectrums of 5G technology?		5

SECTION-B	Attempt ANY THREE of the following Questions	Marks (3X10=30)	CO
Q2(a)	Write a short note on (i) IOT (ii) IIOT		1
Q2(b)	What are the different layers in cloud computing? Explain working of them.		2
Q2(c)	Write 5 use cases of the block chain technology? Explain google pay.		3
Q2(d)	Elaborate the evolution of 3D printing? Explain in details the tools used in it?		4
Q2(e)	Explain the various generations of technology in terms of data speed?		5

SECTION-C	Attempt ANY ONE following Question	Marks (1X10=10)	CO
Q3(a)	What do you understand by sensors? Explain in terms of IoT? Explain the classification of sensors.		1
Q3(b)	Explain smart city? Write its features.		1

SECTION-C	Attempt ANY ONE following Question	Marks (1X10=10)	CO
Q4(a)	What is cloud computing? Explain the different services provided by the cloud computing companies.		2
Q4(b)	Explain in details the vendor offering provided by the (i) IBM (ii) Microsoft		2

SECTION-C	Attempt ANY ONE following Question	Marks (1X10=10)	CO
Q5(a)	Explain in details about Smart contract. Write its advantages over traditional contract.		3
Q5(b)	What is cryptocurrency? How it is different from traditional currency? Write the disadvantages of bitcoin?		3

SECTION-C	Attempt ANY ONE following Question	Marks (1X10=10)	CO
Q6(a)	Explain the procedure to make a drone. Write the rules to become a drone pilot.		4
Q6(b)	What is drone? Explain its various types		4

SECTION-C	Attempt ANY ONE following Question	Marks (1X10=10)	CO
Q7(a)	What do understand by Virtual Reality? Write the differences between AR, an VR?		5
Q7(b)	What is BCI. How does it work. Write its various advantages.		5