BTECH
(SEM I) 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 mean by Internet of Things (IoT)	
Q1(b)	How IoT Sensor works	
Q1(c)	What is Gateway	
Q1(d)	What is Cloud computing	
Q1(e)	What are the uses of Cloud Computing	
Q1(f)	What is Security	
Q1(g)	What is Blockchain	
Q1(h)	What is the 3D Printing	
Q1(i)	What is Drone	
Q1(j)	Define Augmented reality	

SECTION-B   Attempt **ANY THREE** of the following Questions   Marks (3X10=30)   CO

Q2(a)	How does Industrial IoT works, also Discuss the key benefits of Industrial Internet of Things	
Q2(b)	Discuss the types and features of IoT Sensor	
Q2(c)	What is Google Clould Platform, discuss its services and features.	
Q2(d)	Discuss the Vendors of Cloud Computing and Services Provided by Cloud Providers	
Q2(e)	Discuss 5G Technology in India also discuss 5G Applications and Use cases	

SECTION-C   Attempt **ANY ONE** following Question   Marks (1X10=10)   CO

Q3(a)	Discuss the Applications of Industrial Internet of Things	
Q3(b)	Discuss the Advantages and disadvantages of Cloud Computing	

SECTION-C   Attempt **ANY ONE** following Question   Marks (1X10=10)   CO

Q4(a)	What is AWS (Amazon Web Services), discuss its features and also give Applications of AWS services	
Q4(b)	Enumerate the Advantages of AWS and Disadvantages of AWS	

SECTION-C   Attempt **ANY ONE** following Question   Marks (1X10=10)   CO

Q5(a)	Explain Principles of 3D Printing also discuss Use Cases/Applications of 3D Printing	
Q5(b)	Explain Smart Contract, also discuss Advantages of Smart Contracts	

SECTION-C   Attempt **ANY ONE** following Question   Marks (1X10=10)   CO

Q6(a)	Discuss Augmented reality (AR) also give Applications or Use Cases for AR in details	
Q6(b)	Discuss Drone Regulations in India, also enumerate the procedures for becoming a drone Pilot in India	

SECTION-C   Attempt **ANY ONE** following Question   Marks (1X10=10)   CO

Q7(a)	With block diagram Explain Brain Computer Interface system	
Q7(b)	Enumerate the Advantages and disadvantages of Brain Computer Interface	