



**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 <b>All</b> 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 <b>ANY THREE</b> 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 Cloud 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 <b>ANY ONE</b> 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 <b>ANY ONE</b> 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 <b>ANY ONE</b> 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 <b>ANY ONE</b> 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 <b>ANY ONE</b> 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: |                 |    |