

Gandhi Institute of Engineering and Technology University, Odisha, Gunupur (GIET University)

B.B.A. (Second Semester - Regular) Examinations, May - 2026

25SEC201 – Emerging Technologies and Applications



Time: 2 hrs

Maximum: 60 Marks

(The figures in the right hand margin indicate marks.)

PART – A

(2 x 10 = 20 Marks)

Q.1. Answer <i>ALL</i> questions	CO #	Blooms Level
a. Define cloud computing.	CO1	K1
b. How can sensor technologies be applied in smart city systems?	CO1	K3
c. List any two applications of IoT in smart cities.	CO2	K1
d. Explain how cloud governance helps in managing security and compliance in organizations.	CO3	K2
e. What is the role of AR/VR in customer experience enhancement?	CO2	K2
f. How would you apply cloud service models (IaaS, PaaS, SaaS) in planning an enterprise IT solution?	CO4	K3
g. Differentiate between public and private cloud in terms of security and business risk.	CO3	K4
h. Assess the impact of Industry 4.0 technologies on supply chain efficiency.	CO3	K5
i. Differentiate between public, private, and hybrid cloud deployment models in terms of business integration.	CO4	K4
j. List any two cloud service models used in enterprises.	CO2	K1

PART – B

(8 x 5 = 40 Marks)

Answer *all* the questions

Marks CO # Blooms Level

2. a. Define blockchain technology and list its fundamental components. (OR)	8	CO1	K1
b. Explain the basic concepts of Augmented Reality (AR) and Virtual Reality (VR).	8	CO1	K2
3.a. Describe cryptography and consensus mechanisms and analyze their role in ensuring blockchain security. (OR)	8	CO2	K4
b. Explain the concept of Industry 4.0 and analyze its impact on manufacturing automation and business transformation.	8	CO2	K2
4.a. Explain how blockchain technology can be applied in digital identity management systems. (OR)	8	CO3	K3
b. Define blockchain technology and list its key features.	8	CO3	K1
5.a. Examine the role of cyber-physical systems and digital twins in Industry 4.0 and analyze their impact on smart manufacturing. (OR)	8	CO1	K4
b. List recent advancements in AR/VR technologies.	4	CO4	K1
c. Describe the current state and growth of AR/VR technologies in industry.	4	CO4	K2
6.a. Explain the process of integrating cloud services into existing enterprise IT systems. (OR)	8	CO4	K2
b. Analyze how organizations can plan migration from traditional infrastructure to hybrid cloud environments.	8	CO4	K4

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