

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BBA DEGREE EXAMINATION DECEMBER 2023
(Fourth Semester)

Branch – BUSINESS ADMINISTRATION(LOGISTICS)

LOGISTICS 4.0

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 What is a SMART Factory in Industry 4.0 known for?
 - (i) Limited use of automation
 - (ii) High level of connectivity and automation
 - (iii) Isolation from digital technologies
 - (iv) Focus on manual labor
- 2 What is the focus of Logistics 4.0?
 - (i) Reducing automation in supply chain management
 - (ii) Emphasizing manual processes
 - (iii) Avoiding the use of advanced robots
 - (iv) Leveraging digital transformation in logistics
- 3 What are some challenges associated with the Internet of Things (IoT) in logistics?
 - (i) Decreased connectivity
 - (ii) Data security and privacy concerns
 - (iii) Limited data generation
 - (iv) Reduced automation
- 4 What is the role of logistics and supply chain analytics in Logistics 4.0?
 - (i) It is not relevant in Logistics 4.0
 - (ii) It focuses on reducing data complexity
 - (iii) It helps optimize supply chain operations through data analysis
 - (iv) It eliminates the need for data warehousing
- 5 What is the focus of Future of Works and Skills for Workers in the Logistics 4.0 Era?
 - (i) Eliminating the need for workers
 - (ii) Preparing the workforce for technological advancements
 - (iii) Eliminating the need for workers
 - (iv) Avoiding the development of new skills

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Briefly explain the concept of Industry 4.0. What are the key drivers and enablers of this industrial revolution?
OR
b Discuss the challenges that organizations may face in transitioning to Industry 4.0. How can these challenges be addressed to ensure a smooth transformation?
- 7 a Explain the concept of Logistics 4.0 and its role in the digital transformation of supply chain management.
OR
b What is the Industrial Internet of Things (IIoT), and how does it impact logistics and supply chain operations?

Cont...

- 8 a Explain the concepts of Inventory Control Systems (ICS), MRP-I, and MRP-II in the context of supply chain management.
OR
b Highlight the challenges organizations face in implementing IoT solutions in logistics and supply chain management.
- 9 a Discuss the impact of digital technologies on the Consignor Inventory Model in procurement.
OR
b Explain the concept of Logistics and Warehousing 4.0 and how digital technologies are transforming traditional logistics and warehouse operations.
- 10 a Discuss the future of work and the skills required for workers in the Logistics 4.0 era.
OR
b What strategies can companies employ to compete effectively in a Logistics 4.0 world?

SECTION -C (30 Marks)Answer **ALL** questions**ALL** questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a Explore the concept of a SMART Factory in the context of Industry 4.0.
OR
b Describe the evolution of the industrial revolutions, including Industry 1.0 to 3.0, and explain how they paved the way for Industry 4.0.
- 12 a Trace the evolution of logistics and supply chain management from traditional practices to Logistics 4.0.
OR
b Explain the concept of cyber security in the context of Logistics 4.0 in detail.
- 13 a Explore the role of the Internet of Things (IoT) in inventory control and supply chain optimization.
OR
b Analyze the process of digitalization in logistics, focusing on the transformation from traditional practices to Logistics 4.0.
- 14 a Explain the importance of logistics and supply chain analytics in Logistics 4.0. How do organizations use data-driven insights to streamline supply chain processes and enhance competitiveness?
OR
b Analyze the impact of digital technologies on the Consignor Inventory Model in detail.
- 15 a Examine the business issues that organizations face in Logistics 4.0, including opportunities and challenges.
OR
b Develop a strategic framework for competing effectively in a Logistics 4.0 world.

Z-Z-Z

END