

(d) Virtual Memory

- 1-d. Wsdl stand for in the context of soa(CO2) 1
- (a) Web Service Description Language
 - (b) Web Service Deployment Language
 - (c) Web Simple Description Language
 - (d) Web Service Data Language
- 1-e. ...Type of technology is best suited for tracking high-value shipments to ensure they reach their destination securely.(CO3) 1
- (a) Bar-coding
 - (b) RFID
 - (c) Digital Signature Technology
 - (d) Satellite GPS
- 1-f. Analyzing the cost-effectiveness of different logistics technologies, which factor would be least relevant?(CO3) 1
- (a) Initial implementation cost
 - (b) Long-term maintenance costs
 - (c) Potential for reducing labor expenses
 - (d) The color of the devices used
- 1-g. Evaluating a green supply chain initiative, which metric is most relevant(CO4) 1
- (a) Production speed.
 - (b) Environmental impact reduction.
 - (c) Inventory levels.
 - (d) Short-term financial gains.
- 1-h. Assess the benefits of sustainable production for a business. Which is a key benefit(CO4) 1
- (a) Higher resource consumption.
 - (b) Enhanced brand reputation and long-term cost savings.
 - (c) Reduced regulatory compliance.
 - (d) Lower product quality.
- 1-i. Eol stand for in reverse logistics(CO5) 1
- (a) End of Line
 - (b) End of Lease
 - (c) End of Life

(d) End of Logistics

- 1-j. Select an example which describes a circular economy(CO5) 1
- (a) An economy where resources are used once and disposed of
 - (b) An economy focused on renewable energy sources
 - (c) An economy where resources are reused and recycled continuously
 - (d) An economy that relies on fossil fuels

2. Attempt all parts:-

- 2.a. Explain the government-to-citizen (g2c) model.(CO1) 2
- 2.b. List two benefits of using web services in a business.(CO2) 2
- 2.c. Define a push supply chain.(CO3) 2
- 2.d. Identify and discuss two critical drivers of green logistics.(CO4) 2
- 2.e. Demonstrate how companies can use data analytics to improve their reverse logistics operations.(CO5) 2

SECTION B

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3. Answer any five of the following:-

- 3-a. Explain potential risks and challenges associated with implementing industry 4.0 technologies.(CO1) 6
- 3-b. Describe type of e-commerce(CO1) 6
- 3-c. Compare and contrast the roles of edi and ai in enhancing supply chain efficiency(CO2) 6
- 3-d. Provide an example of how a company might implement edi to improve its supply chain operations.(CO2) 6
- 3.e. How can a warehouse management system be optimized with bar-coding and scanning technology(CO3) 6
- 3.f. Describe the main elements that constitute an effective green purchasing strategy.(CO4) 6
- 3.g. Assess the long-term environmental impacts of implementing green logistics practices in the global supply chain industry. How do these practices contribute to broader environmental goals(CO5) 6

SECTION C

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4. Answer any one of the following:-

- 4-a. Describe the e-scm framework, and what are its key components?(CO1) 10
- 4-b. Imagine you are the ceo of a traditional retail company looking to expand your 10

business into the e-commerce space. What specific aspects of the e-environment would you need to consider to successfully transition to an e-business model? Identify at least three key factors driving e-business that would influence your strategic planning.(CO1)

5. Answer any one of the following:-

- 5-a. Compare and contrast the benefits of using saas versus traditional on-premises software.(CO2) 10
- 5-b. Develop a plan for a financial services company to implement service-oriented architecture (soa) to improve its customer service operations.(CO2) 10

6. Answer any one of the following:-

- 6-a. Discuss the comprehensive framework of e-procurement, highlighting its various components and technologies involved(CO3) 10
- 6-b. Define what an advance ship notice (asn) is and describe its primary purpose in logistics.(CO3) 10

7. Answer any one of the following:-

- 7-a. Define green procurement and purchasing, and explain their significance in modern business practices(CO4) 10
- 7-b. Discuss the key drivers that motivate companies to adopt green procurement practices.(CO5) 10

8. Answer any one of the following:-

- 8-a. Assess the environmental impacts of a regional transportation network and design an intervention plan to mitigate these impacts. Consider factors such as emissions, noise pollution, and ecological disruption. Include a discussion on the potential economic and social benefits of your plan.(CO5) 10
- 8-b. Investigate the reverse logistics process of an electronics manufacturer and develop a plan to transition to a closed-loop supply chain. Highlight the benefits of this transition in terms of resource efficiency, waste reduction, and cost savings. Provide examples from the industry to support your plan.(CO5) 10