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**PRESIDENCY UNIVERSITY
BENGALURU**

SCHOOL OF MANAGEMENT

Winter Semester: 2021 - 22

TEST 1

Date: 27-04-2022

Course Code: BSC 107

Time: 11:30AM - 12:30PM

Course Name: Emerging Technologies in Logistics and Supply Chain
Management

Max Marks: 30

Program & Sem: BBA Logistics & Supply Chain & VI

Weightage: 15%

Instructions:

(i) Read the all questions carefully and answer accordingly.

Part A [Memory Recall Questions]

Answer all the Questions. Each question carries ONE mark.

(10Qx 1M= 10M)

- Which among the following is concerned with the various aspects of end-to-end logistics and supply chain management in the context of Industry 4.0, the Internet of Things
[CO1 Knowledge]
a) Logistics 4.0 b) 3PL c) 4PL d) Green Logistics
- Any uncertainties that happens in a Supply Chain is known as _____ [CO1 Knowledge]
a) Abnormalities b) Disruption c) Destruction d) Demolition
- Which among the following is 'NOT' an element of logistics? [CO1 Knowledge]
a) Transport b) IT c) Storage d) Legal
- Which of the following is 'NOT' included in logistics costs? [CO1 Knowledge]
a) Inventory b) Warehousing c) Insurance d) Packaging
- Explain how RFID technology helps in inventory management. [CO2 Comprehension]
- Write down the application of GPS in container tracking [CO2 Comprehension]
- List down the application of EDI [CO1 Knowledge]
- Which among the following is the use of more than one mode of transportation?
a. Multimodal b. Intermodal c. Bimodal d. All the above [CO2 Comprehension]
- Write notes on CPS? [CO1, Knowledge]
- Packaging performs two functions Logistics and _____ [CO2 Comprehension]
a. Distribution b. Store-Keeping c. Material Handling d. Marketing

Part B [Thought Provoking Questions]

Answer both the Questions. Each question carries marks.

(2Qx5M=10M)

11. AIOSTA a leading American based pharmaceutical company wants to automate its production and supply chain capabilities. In this regard Mr Sam the senior IT consultant of the firm suggests 'Logistica 14S' an IoT enabled platform takes care of complete supply chain and logistics operations. Suggest from your view point how by upgrading this software will benefit the company for effective supply chain and logistics operation? (CO1 Knowledge)

12. Mr. Alex the chairman of Eurasia Automobiles are in to manufacturing of Light Vehicle and Heavy Duty for past 10 years. As the company faces a huge challenge of raising logistics costs up to 40% of the total costing in terms of inventory and distribution. Suggest him some best techniques Where he can minimize the costs and maximize the company revenue? (CO2 Comprehension)

Part C [Problem Solving Questions]

Answer the Question. The question carries TEN marks.

(1Qx10M=10M)

13. Mr. Li is a farmer from China, he heard from his friend Mr. Xiu, that the application of Internet of Things in green agricultural products would benefit production. The study found that application of IOT in supply chain had become advantageous for green agricultural produce. It had benefited the agricultural information sector. He also found that there is a gap between the applied research in the field of IOT and its practical applications with respect to supply chain management. He also found differences in applications of IOT to various green products. The supply chain management processes of all the green produces were not same and they needed different application methods.

With this regard Mr Xiu advised Mr Li a software application for performing real time data comparison and demand forecasting in various markets to move his products to various markets. In this regard: (CO1, Knowledge)

- a. Suggest how implementation of the IoT based application would benefit him in terms of market identification and demand forecasting.
- b. Write down the factors driving E-Environment and E-Business.
- c. How he can also reduce overall logistics costs for his company?



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**PRESIDENCY UNIVERSITY
BENGALURU
SCHOOL OF MANAGEMENT**

TEST 2

Winter Semester: 2021 - 22

Course Code: BSC 107

Course Name: Emerging Technologies in Logistics & Supply
Chain Management

Program & Sem: BBA Logistics & Supply Chain & VI

Date: 02-JUNE-2022

Time: 11:30AM – 12:30PM

Max Marks: 30

Weightage: 15%

Instructions:

(i) *Read the all questions carefully and answer accordingly.*

Part A [Memory Recall Questions]

Answer all the Questions. Each question carries One marks.

(10Qx 1M= 10M)

- _____ containers are shipping containers used in freight and logistics that are integrated with Internet of Things (IoT) technologies, sensors, GPS tracking and solar panels. [CO3, Comprehension]
a. Dead Weight b. Break-Bulk c. Refer d. Smart containers.
- The _____ technology in Smart Containers can provide accurate real-time data about condition, location and the environment directly to the operators. [CO3, Comprehension]
a. Mass b. Skill c. CoT d. IoT.
- A ___ is a temperature-controlled supply chain comprising refrigerated production, storage and distribution facilities supported by equipment that can constantly maintain the required low-temperature range. [CO3, Comprehension]
a. Cold chain b. Supply Chain c. Value Chain d. Web Chain
- The _____ containers use advanced technology for controlling and regulating carbon dioxide, oxygen and nitrogen levels. [CO3, Comprehension]
a. High-insulated b. Closed c. Atmosphere Controlled d. Refer Controlled
- _____ solutions uses advanced data management and analysis tools to extract useful, structured data from formerly inaccessible sources [CO2, Comprehension]
a. IPA b. RPA c. KPI d. RAC
- What is EDI? [CO2, Comprehension]
- What is Digital Asset Management [CO2, Comprehension]

8. _____ is the information that identifies and describes the contents of a medium and usually magnitude of data is very high. [CO2, Comprehension]
a. Metadata b. Primary Data c. Secondary Data d. Concrete Data
9. What is predictive data study? [CO2, Comprehension]
10. Which is the code that is above every package, when scanned with a scanner will provide information about the product. [CO2, Comprehension]
a. Thermal Code b. Data Code c. Object Code d. Bar Code

Part B [Thought Provoking Questions]

Answer both the Questions. Each question carries Five marks. (2Qx5M=10M)

11. XYZ International company manufacturers and exporters of polymer plastics across to various European destinations finds difficult with the conventional software that it installed in all the departments. So the company decide to implement ERP software? Elucidate the advantages of implementation of ERP system in the organization [5M] [CO2, Comprehension]
12. How can digital technology be adopted in delivery process. Explain the six stages of successful digital delivery? [5M] [CO3, Comprehension]

Part C [Problem Solving Questions]

Answer the Question. The question carries TEN marks. (1Qx10M=10M)

13. A slew of emerging developments in the global banana economy have brightened the prospects for banana shipments from India. Apart from the rising intensity of extreme weather events triggered by climate change, the banana fusarium wilt, which has been affecting plantations since late 19th century, continues to be a serious concern for growers across the world. Keeping the above factors in to consideration suggest your constructive measures how banana exports can be boosted from our country? [CO3, Comprehension]



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**PRESIDENCY UNIVERSITY
BENGALURU
SCHOOL OF MANAGEMENT**

END-TERM EXAMINATION

Winter Semester: 2021 - 22

Course Code: BSC 107

Course Name: Emerging Technologies in Logistics & Supply
Chain Management

Program & Sem: BBA Logistics & Supply Chain & VI

Date: 01-07-2022

Time: 01:00 pm to 04:00 pm

Max Marks: 100

Weightage: 50%

Instructions:

(i) Read the all questions carefully and answer accordingly.

Part A [Memory Recall Questions]

Answer all the Questions. Each question carries Three marks.

(10Qx 3M= 30M)

1. What is Freight in Logistics? [CO1, Knowledge]
2. Write notes on Smart Factory. [CO1, Knowledge]
3. What is CPS? [CO2, Comprehension]
4. Match the Following: [CO2, Comprehension]
 - a. Go-Down X i. Temporary Storage
 - b. Wharfage X ii. Permanent Storage
 - c. Warehouse X iii. Bonded Warehouse
5. Explain the application of Big-Data in supply Chain? [CO4, Application]
6. What is Digital Asset Management? [CO4 Application]
7. What do you mean by Blockchain Caveats? [CO5 Application]
8. Say True or False.
 - i) Supply Chain Solutions Will Continue to Move to the Cloud. (T/F) [1M] [CO3, Comprehension]
 - ii) Metadata is the information that identifies and describes the contents of a medium (T/F) [CO3, Comprehension]
 - iii) Digital asset management system handles the metadata (T/F) [1M] [CO3, Comprehension]
9. What is Digital Supply Chain? [CO4, Application]
10. Write notes on Hybrid Block Chain? [CO5 Application]

Part B [Thought Provoking Questions]

Answer all the Questions. Each question carries Eight marks.

(5Qx8M=40M)

11. ABC company incurs almost \$10Million losses every year with its poor production scheduling and sales projection also with ineffective logistics planning and poor supplier relationship. Suggest few remedies how by applying Internet of Things the company can boost its production output and thereby avoid other unnecessary costs? [CO1, Knowledge]

12. BONSEI Inc is a biomedical company, which has decided to adopt Logistics 4.0 for automating its production and supply chain process. From your view point draw a process diagram how a typical system can be automated and also specify the advantages of such implementation to the company.

[CO3, Comprehension]

13. Nissan and Toyota were struggling to cope with the shock when disaster hit again in 2016 in Japan. Nissan quickly built an alternative supplier network and was able to resume operations and regain lost market share much faster than Toyota. For its part, Suggest, how Toyota can prepare a resilient supply chain system to recover much more effectively.

[CO4, Application]

14. The healthcare and pharmaceuticals, are witnessing new regulations to protect and stimulate domestic production. As a result, many companies are now exploring the ability to reduce geographic dependence in their global networks and shorten cycle times for finished products by bringing production back to domestic markets. Regional or local supply chains can be more expensive, So, Suggest, how they can reduce this risk of disruption and effectively have supplier relationship management to avoid the disruption?

[CO2, Comprehension]

15. Bext360 is using blockchain technology to better track all elements of the worldwide coffee trade—from farmer to consumer—and thereby boost supply-chain productivity. But the company finds that middleman or brokers exploit the farmers by charging commission from them. So, the company has decided to use bitcoins or cryptocurrencies to its suppliers. In this regard explain how usage of blockchains in the form of cryptocurrencies will benefit the farmers from exploitation?

[CO5, Application]

Part C [Problem Solving Questions]

Answer both the Questions. Each question carries Fifteen marks.

(2Qx15M=30M)

16. Mr. Ram exports 100 TEUs of finished garments every month in containers to Mexico with Mr. John as the importer. Every time they enter into the contract they fix forward exchange contract having fixed value with US\$ as the medium of currency. Due to the present war scenario and volatility in the Indian financial market Mr. Ram urges Mr. John to prefer the mode of payment with some cryptocurrency instead of conventional US\$. Now examine the complexities in this, dealings and how cryptocurrencies can become disruptive for banking industry.

[CO2, Comprehension]

17. Food and pharmaceutical products often have similar storage and shipping needs. Blockchain allied to IoT sensors on product can record temperature, humidity, vibration and other environmental metrics. Walmart's innovative use of the technology to track the provenance and condition of its pork products coming from China. With the success of blockchain in the supply chain, Walmart now requires all its spinach and lettuce suppliers to deploy the technology. Explain how Walmart can implement this blockchain strategy from its suppliers from developing countries like India to gain the supply chain optimal turnover and maximize its profitability.

[CO5, Application]