B.Com. (Hons) DEGREE EXAMINATION,NOVEMBER 2018
III Year V Semester
Core Major-Paper XXII
LOGISTICS AND SUPPLY CHAIN MANAGEMENT

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer **ALL** the questions

1. Define 'logistics'.
2. What is value chain?
3. State the purpose of demand forecasting.
4. State any two functions of 3PL.
5. What is containerization?
6. What is bill of lading?
7. Define integrated logistics
8. What is Logistic Information System?
9. What is multimodal transportation?
10. What is EDI?

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

11. Explain the various functions of Supply Chain Management.
12. What are the benefits of material management?
13. Describe the steps involved in order processing.
14. Explain the components of supply chain management
15. Discuss the merits and demerits of sea transport.
16. Explain the role of participants in transportation service.
17. Describe the principles of Logistic information system.
18. What are the four subsystems in the logistics information system?

Section C $(2 \times 15 = 30)$ Marks

PART - A - Case Study - Compulsory Question

19. Stephan Wrage was inspired while kite sailing as a 15 year old to apply the immense power of the kite sail in new ways. Stephan completed a degree in Engineering and started the Sky Sails Company in 2001, with the idea of towing ships using a wind-powered kite. With this technology, small to large ships that are usually powered by burning oil can now reduce their fuel use by 10 to 35% using wind power. By using less fuel, they reduce greenhouse gas emissions. Sky Sails rely on computers and sensors that detect wind direction and strength to determine the most effective way to capture wind power. The system is controlled remotely on board the ship so that the sail can be hoisted when out of the three mile zone and good winds are present. The ship's automated system also repacks the components. Sky Sails capture five times the wind energy of normal ship sails. Research began in 2001, and testing began on small ships in 2004. Sky Sails now has kites available for small cargo ships, fish trawlers, and large yachts. Testing on the full-size cargo ship, MV Beluga Sky Sails, began in 2007. As the cost and environmental impacts of fossil fuels rise, finding practical and helpful solutions to meet our need for energy is necessary. Oil prices are expected to double to $200 a barrel by 2030 as the supply falls. Stephen Wrage's innovation and the work of his company have earned Stephen and Sky Sails more than 16 awards in Europe and elsewhere, including the Outstanding Person of 2004 Award in Japan. Challenges and Future Possibilities Sky Sails plans to put sails on 1,500 cargo ships and fish trawlers by 2015 and on 10,000 ships by 2027. The use of Sky Sails globally could reduce carbon emissions by 150 million tonnes each year. That's about 15% of Germany's current greenhouse gas emissions!

    (i) Do you think that Sky Sails would reduce the impact of shipping goods globally?

    (ii) What is your opinion about 'Sky Sails' concept?

PART - B

Answer any **ONE** questions

20. Explain the application of information technology in Logistic Information System.

21. Discuss the Pros and Cons of using third party logistics.

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