

SENIOR SCHOOL CURRICULUM

2017-18

CLASS–XI ELECTIVE

LOGISTICS, OPERATIONS AND SUPPLY CHAIN MANAGEMENT (750) THEORY

Time: 3 Hours

Marks: 60

Unit–1: Elements of Logistic, Operations and Supply Chain Management

10

- Definition of Logistics.
- Evolution of Logistics & Logistic Functions, Need for Logistics.
- Concept of:
 - (i) Ware house, its types and functions.
 - (i) IBL.
 - (iii) OBL.
 - (iv) Inventory Management.
 - (v) Supply Chain Management.
 - (vi) Refrigerator & cold chain container movement.

Unit–2: Multimodal Transport System

10

- Multi modal transport-features of multi-modal transport system, advantages.
- Types of intermodal movements.
- intermodal relationships; multimodal carriers.
- international movements.

Unit–3: Freight Management and Material Handling

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- Logistic Transport Operation (Network Planning, Route Management, Hub & Spoke system).
- Freight Management and Cost.
- Material Storage and Safety Methods.
- Stacking of goods, loading, unloading & handling of goods.

Unit–4: Safety in Transportation and Traffic Regulation

13

- Safety in Transportation.
- Accidents in the air: probable causes, navigation aids, landing categories.
- Railway accidents and disaster management: classification of accidents, derailment and its causes, safety measures, disaster management.
- Road accidents: reasons and possible mitigation measures.

- (i) Safe Cargo Movement Practice.
- (ii) Safety Storage.
- (iii) Disaster Management.
- (iv) Accident Management.
- Traffic Management & Regulation.

Unit-5: ISO in Logistics and Occupational Hazards

13

- ISO in Logistic.
- Quality.
- Environment.
- Occupational Hazards and Safety.

PRACTICAL

Time: 2 Hours

Marks: 40

1. Case Study on an overall logistic Operation of an Organization. **20**
2. Project on Company's logistics operation. **20**

CLASS-XI

GENERAL FOUNDATION COURSE (501)
(Common for Engineering & Technology Based Courses)

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CLASS–XII
ELECTIVE
LOGISTICS, OPERATIONS AND SUPPLY CHAIN MANAGEMENT (750)
THEORY

Time: 3 Hours

Marks: 60

Unit–1: Logistics and System Concept, Objectives and Role of Logistics **10**

- Logistics and System concept - Information flow, warehousing, inventory control, packaging, transportation.
- Objectives of logistics management.
- Role of logistics in supply chain.
- 3 PL & 4 PL Logistics.
- Careers & growth in Logistics and Supply Chain.

Unit–2: Inventory Management **15**

- Inventory management and supply chain.
- Inventory functions and cost.
- Inventory related cost.
- Functions of Inventory management in supply chain operations.

Unit–3: Freight Management **10**

- Freight Management - factors influencing freight cost, route planning.
- Packaging for safe product handling and in Logistic Operations.
- Containerization - its scope and types, its uses.

Unit–4: Logistic Management and Information Technology **15**

- Logistics operation and Information technology - New trends - GPRS, RFID, Bar code, Radio Frequency Tag (RFT), E -commerce.
- Documentation for domestic and international trade cargoes, International Chamber of Commerce Terms.
- Sea borne trade - Ports and Ships management in India.
- Logistics and Supply Chain uses in World Industry.

Unit–5: Emerging Issues in SCM and Logistics **10**

- Statutory Provisions dealing transport – Multi modal Transport Act-1993.
- Motor Vehicles Act 1988 - driving rules.
- Insurance coverage - Marine insurance, road, rail, sea, air etc.
- Insurance Claims.

PRACTICAL

Time: 2 Hours

Marks: 40

Preparation of Different Documents used in –

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|---------------------------|-----------|
| 1. Domestic cargoes. | 20 |
| 2. International cargoes. | 20 |

CLASS–XII

GENERAL FOUNDATION COURSE (501)

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LIST OF RECOMMENDED BOOKS

1. Fundamentals of Transportation System XI, Published by CBSE.
2. Logistics, Operations and Supply Chain Management-I, Published by CBSE.
3. Logistics, Operations and Supply Chain Management-I, Teacher's Manual, Published by CBSE.
4. Integrated Transport Operations, Class XII, Published by CBSE.
5. Logistics, Operations and Supply Chain Management, Class XII, Published by CBSE.

LIST OF EQUIPMENTS

1. Geographical charts.
2. Atlas.

