**JAIN (DEEMED-TO-BE UNIVERSITY)**

**BENGALURU, KARNATAKA**

**Unitwise Question Bank**

**Course Title:** Supply Chain Management **Programme Name:** B.Tech – Mechanical Engineering

**Course**: 20MEOE08 -Supply Chain Management

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| **SUPPLY CHAIN MANAGEMENT** | | | | |
| Course code: 20MEOE08 | | Total Contact Hours: 45 | | |
| Credits: 03 | | Hours per week: 03 | | |
| **UNIT – I** | | 9 hours | | |
| INTRODUCTION: Fundamentals -need for supply chain management ––evolution- Role in Economy - Importance - customer value, customer service & retention – value of out of stock- setting customer service priorities- Logistics and shareholder value, logistics cost analysis- Principles of logistics costing, | | | | |
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| 1 | With a neat sketch explain the supply chain of a brewery/ soap manufacturing company.  With a neat sketch explain the supply chain of any company of your choice. | | 7 | CO1 |
| 2 | Discuss on the functions and objectives of Supply Chain Management | | 7 | CO1 |
| 3 | “A typical supply chain may involve a variety of stages”. Elaborate. | | 7 | CO1 |
| 4 | Briefly describe the evolution of Supply Chain Management | | 7 | CO1 |
| 5 | Elucidate on the prerequisite for implementing SCM more successfully. | | 7 | CO1 |
| 6 | Describe the different stages/decision phases of a supply chain | | 7 | CO1 |
| 7 | “SCM philosophy drives supply chain members to have a customer orientation”. Explain. | | 7 | CO1 |
| 8 | Differentiate SCM and logistics. | | 7 | CO1 |
| 9 | Write short notes on customer value and customer service | | 7 | CO1 |
| 10 | Briefly explain the impact of logistics and customer service on marketing | | 7 | CO1 |
| 11 | Write short notes on Customer service and customer retention | | 7 | CO1 |
| 12 | What are the different components of logistics costing | | 7 | CO1 |
| 13 | Briefly explain the principles of logistics costing | | 7 | CO1 |
| 14 | What is Economic value addition? Explain the drivers of share holder’s value. | | 7 | CO1 |

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| **UNIT – II** | | 9 hours | | |
| Planning the Supply Chain: Logistics strategy- strategy options, designing a logistics strategy, Implementation - Relating Strategy to Lower Decisions - Areas for Decisions in Implementation - Managing Change | | | | |
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| 1 | Write short notes on logistics strategy. | | 7 | CO2 |
| 2 | Describe the different factors of focus of the logistics strategy | | 7 | CO2 |
| 3 | Write short notes on  Lean strategy  Agile strategy | | 7 | CO2 |
| 4 | Differentiate lean and agile strategy for logistics management. | | 7 | CO2 |
| 5 | Briefly explain any one of the following logistics strategy  Time based strategies  Environment based strategies  Diversification of specialization startegies | | 7 | CO2 |
| 6 | Elucidate on the factors to be considered in the design of a logistics strategy | | 7 | CO2 |
| 7 | Discuss on the guideline for designing and implementing a logistics strategy. | | 7 | CO2 |
| 8 | Enumerate some common problems with implementing logistics strategies. | | 7 | CO2 |
| 9 | Enumerate and explain the decision areas related to implementation of logistics strategy. | | 14 | CO2 |
| 10 | Write short notes on managing the change while implementing SCM. | | 7 | CO2 |
| 11 | It is often more difficult to implement a logistics strategy than to design one. This is why most logistics plans fail in the practice rather than the theory. Do you think that this is necessarily true? What can organisations do to improve the implementation? | | 7 | CO2 |
| 12 | What factors affect the choice of logistics strategy? Take an organisation that you are familiar with, and say exactly how you would set about designing a logistics strategy. | | 7 | CO2 |
| 13 | When customers judge products, they include factors like availability, lead time and after sales service – and these are part of logistics. Is it reasonable to say, therefore, that logistics plays a role in the design of a product? | | 7 | CO2 |

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| **UNIT – III** | | 9 hours | | |
| Planning Resources and Controlling Material Flow: Types of Planning Capacity Planning - Adjusting Capacity - Tactical Planning - Short-term Schedules- Material Requirements Planning -Extending the Role of MRP -Principles of Just-in-time -Achieving Just-in-time Operations -Extending JIT Along the Supply Chain | | | | |
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| 1 | With neat sketch explain the different timing and sizes of capacity expansion done to match demand and supply. | | 7 | CO3 |
| 2 | Enumerate and explain the ways of making short term adjustments to match demand and supply. | | 8 | CO3 |
| 3 | With a neat sketch describe the iterative nature of planning | | 8 | CO3 |
| 4 | Enumerate and explain most common methods of generating plans. | | 7 | CO3 |
| 5 | What are the two approaches for scheduling? Explain the four rules of scheduling | | 8 | CO3 |
| 6 | With a neat sketch explain the procedure for Material Requirement Planning (MRP). | | 7 | CO3 |
| 7 | Write short notes on MRP II | | 6 | CO3 |
| 8 | Write short notes on ERP | | 6 | CO3 |
| 9 | Discuss how the view on holding stock changes in the perspective of JIT. | | 7 | CO3 |
| 10 | “JIT is a way of reducing stock levels, but it is much more than this.” Discuss.  Or  Explain the wider or extended effects of JIT. | | 7 | CO3 |
| 11 | Enumerate the benefits and problems of JIT | | 8 | CO3 |
| 12 | Write short notes on ECR- efficient Consumer Response | | 7 | CO3 |
| 13 | What are the problems of using ECR? How can these problems be overcome? | | 7 | CO3 |

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| **UNIT – IV** | | 9 hours | | |
| Synchronous supply chain- extended enterprise and the virtual supply chain- role of information- ‘Quick response’ logistics- Production strategies for quick response- Logistics systems dynamics  Sustainable supply chain - The triple bottom line- Greenhouse gases and the supply chain- Reducing the transport-intensity of supply chains – Carbon footprint and supply chain-Reduce, reuse, recycle | | | | |
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| 1 | Discuss on the benefits of synchronizing Supply Chain | | 6 | CO4 |
| 2 | Enumerate the steps involved in synchronizing a supply chain. | | 8 | CO4 |
| 3 | With examples, explain the role of information in supply chain management. | | 7 | CO4 |
| 4 | Illustrate the contribution of internet in various stages of SCM | | 8 | CO4 |
| 5 | Write short notes on crossdocking | | 6 | CO4 |
| 6 | Discuss briefly on ‘Quick response’ logistics | |  | CO4 |
| 7 | Explain with example, the bull whip effect in logistics.  Explain ‘Forrester Effect’ with respect to promotion activity.  Discuss the bullwhip effect in supply chain and explain how it is measured. | | 7 | CO4 |
| 8 | What is triple bottom line? Why is it important? | | 7 | CO4 |
| 9 | What practical steps can organisations take to improve the transport-intensity of their supply chains? | | 7 | CO4 |
| 10 | Elucidate on the transportation strategies that can be used by management to help reduce costs. | | 7 | CO4 |
| 11 | Discuss on the significant implications of SCM at every stage in a company’s value chain in vew of sustainability. | |  | CO4 |
| 12 | Briefly discuss on the 3Rs of sustainable supply chain management | |  | CO4 |

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| **UNIT – V** | | 9 hours | | |
| Overcoming the barriers tosupply chain integration: creating the logistics vision- the problems with conventional organizations- Developing the logistics organization- Logistics as the vehicle for change- Benchmarking  **Managing risk in supply chain:** Understanding the supply chain risk profile- organizing for global logistics – thinking global acting local – The future of global supply chain  Supply chain of the future: emerging mega-trends-shifting centres of economic activity, The multi-channel revolution seeking structural flexibility | | | | |
| **SL.no** | **Questions** | | **Marks** | **CO** |
| 1 | Discuss on the effect of gradually shifting centre of gravity of SCM towards the point of final demand. | | 6 | CO5 |
| 2 | Spurred on by the arrival of the Internet, there has been a dramatic growth in recent years of the use of alternative channels of distribution - Comment | | 7 | CO5 |
| 3 | Illustrate how the supply chain of future will be different from the conventional one. | | 7 | CO5 |
| 4 | Elucidate on the key enablers of structural flexibility. | | 7 | CO5 |
| 5 | Citing some examples explain the multi channel revolution in SCM. | | 7 | CO5 |