## Paper / Subject Code: 42872 / Logistics and Supply Clain Management

## 04/06/2025 BE MECHANICAL SEM-VII C-SCHEME QP CODE: 10080993

Note:	
• Question no.1 is compulsory.	A?
<ul> <li>Solve any three questions from the remaining five questions.</li> </ul>	350
• Figure to the right indicates full marks.	5
<ul> <li>Assume suitable data wherever required, but justify the same.</li> </ul>	
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	Marks
Q. 1 Solve any four of the following five questions	Marks
Q. 1 Solve any four of the following five questions (Each question carries 5 marks):	20
a) Summarize the concepts of Contract Management and Non-Disc	losure
agreement and their importance with the help of suitable examples.	Aosure
b) Explain the method of ABC analysis used for selective inventory contr	olo <sup>†</sup>
c) Contrast the different types of transport methods used in Logistics.	\$
d) Differentiate between TMS and WMS with the help of diagram.	
e) List the six different types of distribution network designs and show	v their
working with the help of neat sketches.	45
Q. 2 a) Illustrate the six stages of supply chain and show their contribution	and to
Q. 2 a) Illustrate the six stages of supply chain and show their contribution increasing the value of the Supply Chain with the help of a neat diagram	Also
show the importance of Money, Information and Material flow in a su	
Supply Chain case study.	inable
b) Summarize the concept, causes and categories of Supply Chain	Rick
management in detail.	10
management in detail.	
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Q. 3 a) Summarize the concept of Bullwhip effect and list the factors responsi	ble for 5
its reduction.	
b) Define the concept of MOQ and list its benefits using suitable example	
c) Summarize the concept of ABC analysis used for selective inventory concept of the concept of the concept of the concept of ABC analysis used for selective inventory concept of the con	ontrol, 10
using a suitable case study.	
Q. 4 a) Define outsourcing, list its types and explain and compare the 3PL an	nd 4PL <b>10</b>
concepts in supply chain.	
<b>b)</b> Differentiate between P system and Q system in inventory control.	5
c) A company has a demand of 12000 units per year for an item and	
produce the items at a unit cost of Rs. 120. The cost of one setup is R	•
and the holding cost per unit per month is Rs. 0.15. Determine the op	tımum
lot size and total cost per year.	
Q. 5 a) Define CSR and recall the initiatives and actions done under CSR.	10
<b>b)</b> List the different mathematical models used in SCM and recall their imp	oortant 10
points.	10
Q. 6 a) List the Key issues in SCM and explain the four process cycles of S	Supply
Chain using neat sketches.	10
<b>b)</b> Summarize the Role of IT in a supply chain.	10

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