Time: 3 Hours

Marks : 80

- Note: (1). Q.1 is Compulsory. (2). Attempt any three questions out of the remaining five. Q.1 Attempt any four: 20What is meant by Supply Chain Management? What are the objectives of Supply Chain (a) Management? What is meant by Bullwhip Effect in Supply Chain? How can it be reduced? (b) What are the reasons for holding inventory? (c) What are the objectives of Logistics Management? What are the factors affecting logistics (d) function? How do businesses incorporate RFID into the Supply Chain? (e) Q.2 (a) What are the challenges in establishing a global supply chain? 10 Q.2 (b) Discuss how to create a supplier scorecard in supplier performance evaluation. 10 Q.3 (a) What is the difference between a P system and a Q system in inventory control? 10 Q.3 (b) Find the optimum order quantity given that annual usage is 500 pieces, setup cost is Rs. 10, I = 20%, cost per unit is Rs. 100 10 Q.4 (a) Discuss the factors in packaging that lead to efficient logistics management. 10 Q.4 (b). What is the difference between a forward supply chain and a reverse supply chain? 10 Q.5 (a) What is a Transport Management System (TMS)? What are its different components? 10 Q.5 (b) What is a Warehouse Management System (WMS)? What are the essential processes in a WMS? 10 Q.6 Answer the following: 20 a. What are the pros and cons of different modes of transportation? b. What is the difference between takt time and lead time? c. A company has received and order for 1,500 units of mugs that need to be manufactured in a period of 24 hours. Calculate the takt time. Assume that the firm has continuous manufacturing
 - processes 24 hours a day.
 - d. What are the various design options for a distribution network? Draw their labelled sketches.?
 - e. What is meant by Supply Chain Resilience?