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Time: 3 hours

Max. Marks: 100

- NB: 1) All questions are compulsory
 2) Specify **assumptions**, if any, while **answering** the questions.
 3) **Figures** to the **right** indicate **full** marks.

Q. 1. a) Fill in the blanks (Attempt Any 10)**(10)**

- 1) The supply chain begins with the _____ of the customers. (**Needs / Demand / Wants**)
- 2) The _____ has made it possible for other companies to eliminate intermediaries and sell directly to the end consumer. (**Outsourcing / Internet / Marketing**)
- 3) A supply chain is made up of a series of processes that involve an input, a _____, and an output. (**Customer / Transformation / Seller**)
- 4) _____ is the design of seamless value-added processes across organization boundaries to meet the real needs of the end customer. (**Supply Chain Management / Logistic Management / Production Management**)
- 5) "3PL" involves using a supplier to provide _____ services. (**Logistics / Marketing / Warehousing**)
- 6) The purpose of supply chain management is _____ (**Integrating Supply & Demand Management / Production Management/ Distribution Management**)
- 7) Logistics is the part of a supply chain involved with the forward and reverse flow of _____ (**Goods & Service / Cash / Goods, Service & Cash**)
- 8) _____ introduces the Management Data Warehouse (MDW) to SQL Server Management Studio for streamlined performance troubleshooting. (**SQL Server 2008 / SQL Server 2010 / SOL Server 2014**)
- 9) The supply chain concept originated in what discipline _____ (**Planning / Marketing / Distribution**)
- 10) The supply chain management philosophy emerged in _____ (**1990 / 1980 / 1985**)
- 11) A _____ encompasses all activities associated with the flow and transformation of goods from the raw material stage, through to the end user, as well as the associated information flows. (**Production line / Supply chain / Distribution network**)
- 12) Today, a growing number of firms now outsource some or all of their logistics to _____ intermediaries (**Second party logistic providers / Third party logistic providers / Fourth party logistic providers**)

b) State whether following statements are true or false. (Attempt Any 10)**(10)**

1. Physical distribution means movement of goods from one place to another.
2. Waterways are cheapest mode of transportation.
3. For perishable goods airways are the best means of transportation.
4. Supply chain management is the design of seamless value-added processes across organization boundaries to meet the real needs of the end customer.

5. The impact of cost reduction on profits is much larger than the impact of increased purchase.
6. The Data Collection is performed primarily through SSIS packages that control the collection frequency on the target.
7. Do not change any of the job specifications for the data collection and upload jobs
8. Cost driver analysis relates to what processes, activities, and decisions actually create costs in your supply chain.
9. Value stream mapping is an application of process mapping, developed to apply lean principles to process improvement.
10. Through pipelines we can send solid items.
11. Railways are the fastest mode of transportation.
12. Bulk hazardous liquid chemicals are to be transported in dedicated road tankers.

Q.2. Answer the following questions (Any Two) (15)

- a) Discuss the Distribution Network Design.
- b) Define physical distribution and state its importance.
- c) What is marketing channels? Explain channels for consumer and Industrial goods.

Q.3. Answer the following questions (Any Two) (15)

- a) Explain the principles of Logistic Information System.
- b) Discuss the role of information technology in logistics.
- c) State the components of Logistic Information System

Q.4. Answer the following questions (Any Two) (15)

- a) State the challenges in global supply chain management.
- b) Explain the elements of air freight policy.
- c) Discuss role of government in controlling international trade.

Q.5. Answer the following questions (Any Two) (15)

- a) What are the key functions of deep water ports in logistics and supply chain management?
- b) Why dedicated freight corridor are important.
- c) Discuss the various reasons for logistics outsourcing.

Q.6. Write short notes on the followings (Any Four) (20)

- a) Role of wholesaler in physical distribution
- b) Commercial credit insurance

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- c) Shop Floor Information System
- d) Green logistics
- e) Inland container depot
- f) Logistics perks.