PRESIDENCY UNIVERSITY
BENGALURU   **SET A**

SCHOOL OF INFORMATION SCIENCE
END TERM EXAMINATION - JAN 2024

Semester : Semester V - 2023 - 24 - BCA - 2021   **Date :** 03-JAN-2024
Course Code : MEC2003   **Time :** 1:00 PM - 4:00 PM
Course Name : Sem V - MEC2003 - Supply Chain Management   **Max Marks :** 100
Program : BCA   **Weightage :** 50%

Instructions:
(i) Read all questions carefully and answer accordingly.
(ii) Question paper consists of 3 parts.
(iii) Scientific and non-programmable calculator are permitted.
(iv) Do not write any information on the question paper other than Roll Number.

PART A

ANSWER ALL THE QUESTIONS   **5 X 2M = 10M**

1. What do understand by the term "Responsive Supply Chain"? Give a real life example for the same.

    (CO1) [Knowledge]

2. Write the importance of distribution network in today's global Supply Chains.

    (CO2) [Knowledge]

3. How will you differentiate quantitative and qualitative forecasting?

    (CO3) [Knowledge]

4. Under what circumstances pipelines areconsidered as a mode of transportation? What sort of products are generally transported in this mode?

    (CO4) [Knowledge]

5. How big data analytics will help supply chain management to improve?

    (CO5) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS   **5 X 10M = 50M**

6. Consider any of the service industry of your like. For the assumed industry, draw and explain various stages involved in the Supply.

    (CO1) [Comprehension]

7. Design of distribution network is critical for a supply chain as it has huge impact on the sucess of any business. Explain how distribution channel helped the company to get better an example.

    (CO2) [Comprehension]

8. Forecasting is generally a very important aspect of planning for any business entity. Discuss in detail about various forecasting techniques. Also explain when each forecasting techniques fitting good.

(CO3) [Comprehension]

9. Transport by airways is growing rapidly nowadays. As per your understandings, when airways should be used for moving freights? Also elaborate pros and cons of airways.

(CO4) [Comprehension]

10. Various technologies, especially computer related are changing the landscape of every industry including supply chain. Discuss any two disruptive technologies that will have huge impact on supply chain operation.

(CO5) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS
2 X 20M = 40M

11. Various factors have influence on the performance of the supply chain and they are called as "Drivers of Supply Chain Performance". Explain in detail about these driver and mention how these drivers need to be aligned to achieve efficiency.

(CO1) [Application]

12. a) Demand forecasting is critical for companies as it provides essential information about future customer demand. As per your understanding, classify quantitative forecating methods and expalin atleast any three in detail.
b) A retail outlet of a branded television showroom has experienced the monthly demand of for the past 5 months is given below:
D1= 120, D2= 127, D3= 114, D4=126 and D5= 131
Estimate the value of demand for 6th month using exponential smoothing method assuming the smoothing constant as 0.1.

(CO3) [Application]