

School of Business

MBA
ETE - Jun 2024

Time : 3 Hours

Marks :100

Sem IV - MSB22T2007 - Supply Chain Risk Management

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

1. Identify two important financial risks with example. K2 CO1 (4)
2. Discuss the risk register/database and its importance in risk management. K2 CO2 (4)
3. Illustrate the application of risk level in Risk Assessment Matrix method. K4 CO3 (4)
4. Demonstrate application of two types of risk budgets/reserves in risk mitigation. K4 CO4 (4)
5. Discuss two important objectives of ISO14001 EMS. K4 CO5 (4)

6. Conclude the role of risk management in business for short term and long term. K4 CO1(10)
7. Illustrate any five warehousing risks with examples. K4 CO2(10)
8. Assess the ISO 31000 Risk management principles. K5 CO5(12)

9. Ujjawal paint manufacturing firm currently faces sourcing risks of poor quality of raw materials, delayed supply, Shortage of supply, price fluctuation. Develop a FMEA matrix assuming data. K5 CO3(16)
10. A local health clinic has a single registration counter for the patients. The patient arrival is following Poisson distribution with an average of 12 patients per hour. The service time to register is exponentially distributed with an average of 15 patients per hour. Determine
 - (i) Average no. of patients in the system (Ls)
 - (ii) Average no. of patients in the queue waiting (Lq)
 - (iii) Average time a patient spends in the system (Ws)
 - (iv) Average time a patient spends in the queue waiting (Wq)K5 CO4(16)
11. XYZ Company is a leading manufacturer of electronic products. The company has a complex supply chain that involves multiple suppliers, manufacturers, and distributors located around the world. Recently, the company faced a major distribution risk that disrupted its operations and impacted its profitability. K6 CO5(16)

The company's primary distribution centre, located in a coastal city of Mumbai, was hit by a hurricane. The distribution centre suffered significant damage, and many of the products stored there were destroyed. The company was unable to ship products to its customers for several weeks, leading to lost sales and customer dissatisfaction. The company also had to spend a significant amount of money repairing and rebuilding the distribution centre.

Mr. Kaushal, Distribution GM is highly concerned about the current situation. He decided to entrust the responsibility of risk assessment to a Premkumar who is a senior manager in the distribution centre. Mr. Premkumar is an MBA (LSCM) graduate from a leading B-school who studies a course on supply chain risk management during his MBA. He is recalling the techniques taught and one of the techniques he decided to use to assess distribution risk is FMEA analysis. Assume data where ever required, assess the distribution risks company is facing using FMEA technique to prioritise the distribution risk and prepare a report for Mr. Kaushal.