



	(iii)Failing to manage risk will result in more problems, higher benefits and a higher chance of project success.  (iv)Results in more opportunities being captured proactively and turned into positive benefits for the project.		
(g)	BIRRA stands for (i)Business Impact Recovery Resource Analysis (ii)Business Impact Recovery Resource Action (iii)Business Intended Resource Recovery Action (iv) Business Impact Resource Recovery Analysis	2	CO1
(h)	Colt's BCM Strategy consider.....levels of strategic planning (i) 5 (ii) 2 (iii) 3 (iv) 4	2	CO1
(i)	Which of the following is not considered as the top 5 risks under BCM strategy (i) vendor service availability (ii) office infrastructure unavailability (iii) People unavailability (iv) geo-political support	2	CO1
(j)	Which of the following is an automatic replenishment program (i) CR (ii) ECR (iii) CPFR (iv) VMI	2	CO1
<b>SECTION B</b> <b>4Qx5M= 20 Marks</b>			
Q	<b>Attempt all questions</b>		
1	Explain turtle diagram and explain its steps in short?	5	CO2
2	What are the various types of uncertainty? Explain with examples?	5	CO2
3	Explain the following: Inherent risk, Dynamic risk & Holistic risk	5	CO2
4	What are the various typical risk parameters & the difference between risk avoidance & risk reduction?	5	CO2
<b>SECTION-C</b> <b>3Qx10M=30 Marks</b>			
Q	<b>Attempt all questions</b>		
5	Define the following in short-risk event, risk vulnerability, risk exposure, risk resilience, risk appetite?	10	CO3
6	Discuss BIA & the methodology used for BIA?	10	CO3

7	<p>A semiconductor manufacturer wants to produce microprocessors, he has three options: (i) Purchase sophisticated CAD system (ii) to hire and train additional staff (iii) do not produce because the market may be either favorable or unfavorable.</p> <p>In case of favorable condition sales would be 25,000 processors per year and the selling price is Rs. 100 per unit.</p> <p>In case of unfavorable condition sales would be 8,000 processors per year and the selling price is Rs. 100 per unit.</p> <p>Cost of CAD equipment is Rs 500,000. Cost of hiring and training additional staff Rs 375,000.</p> <p>In case CAD is used, the cost price will be Rs. 40 and if CAD is not used, the cost price will be Rs. 50</p> <p>The probability of favorable conditions is .4 for both scenarios.</p> <p>The probability of unfavorable conditions is .6 for both scenarios.</p> <p>Use Decision Tree approach for arriving at a decision about the profitable option.</p>	10	CO3
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**SECTION-D**  
**2Qx15M= 30 Marks**

Q	Read the case & attempt all questions		
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	<p align="center"><b><u>Time is Now To Honor Inspirational Supply Chain Providers</u></b></p> <p>As people hunker down in their homes to isolate themselves from the COVID-19 pandemic, an army of dedicated professionals keeps the country’s food supply chains humming under trying conditions. The army is made up of distributors’ employees, fulfilment center personnel, logistics planners, pallet manufacturing crews, procurement professionals, transportation brokers, truck drivers, truck stop attendants, warehouse workers, wholesalers, and countless other specialists. They make sure that food flows to supermarkets and other retail outlets as well as to e-commerce fulfilment centers, even though media images of empty shelves tell a different story.</p> <p><b>Shock images distort reality</b></p> <p>Empty shopping aisles make for good TV since every media professional knows that “fear sells.” However, we should not assume that these pictures are a proper reflection of reality. When the reported number of COVID-19 infections began to climb, panic buying ensued. The first stay-at-home recommendations followed soon after, feeding the buying frenzy. The inevitable outcome was a sudden run on essentials that left retail shelves bare. Retail stores cannot maintain the large inventory levels needed to meet extreme peaks in demand that may happen once every 100 years or</p>		
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so. Such a policy would require them to store huge volumes of perishable items and bear exorbitantly high spoilage costs.

Moreover, the extra storage space needed is very expensive in cities, and it is much more cost-effective to keep stock in warehouses outside of metropolitan areas. In addition, warehouses allow for what is called risk-pooling. One store may order more items on a particular day while another store orders less, so the warehouse can keep a balanced inventory of goods.

When all retail outlets experience a massive spike in orders, the warehouses that support them strain under the pressure. In response, they order more stock from their wholesalers, prompting the wholesalers to place orders with farms and manufacturers. Completing this process takes time since it involves various activities such as transporting supplies to wholesalers, the breaking of pallets, putting goods away, picking and packing, and shipping goods to stores. Also, retail outlets cannot stock their shelves while shoppers roam the aisles. This is never a good idea and dangerous during periods that require social distancing. Thus, shipments are transferred to the stores at night and handled by shifts of workers who unload the incoming trucks, break the packaging, and stock the shelves.

Unfortunately, even the most respectable media outlets contribute to the unnecessary panic buying by showing pictures and videos of empty shelves. What they never tell their readers and viewers is that these pictures are typically taken at the end of the day. Morning images, taken as stores open, would show well-stocked shelves. However, since fear sells, bottom-line concerns or just carelessness drive journalists to hunt for impactful stories – whether right or not.

### **Time to lay the ghost of shortages**

Let me emphasize that there is no danger of the U.S. running out of food anywhere in the country. Our food is, for the most part, grown and processed in the U.S., and transported by American truckers to American warehouses as well as neighborhood stores and e-commerce fulfillment centers. These food products are not made in China. Sure, there are delays and uneven availability of deliveries from retail stores as well as e-commerce giants. This is, for the most part, a transportation capacity issue. Long haul trucking is struggling to meet the increased demand. However, the US Department of Transportation's Federal Motor Carrier Safety Administration (FMCSA) has stepped in to help truckers. The FMCSA relaxed its hours-of-operations rule. As a consequence, truck drivers can now operate longer hours in their efforts to speed up the America's food

	<p>supply chains. Few outside the industry realize the role of truckers in helping the nation. Others along the food supply chain are ramping up as well. Amazon, for example, is enticing worker to move from its regular fulfilment centers to its online grocery operations, offering them a \$2/hour pay increase on top of its elevated minimum pay of \$17/hour. On the local delivery side, retailers are ramping up. Many are using integrated fulfilment solutions which allow them to quickly implement a system of ordering, delivery, tracking, and payments.</p> <p>In short – there is no reason to panic.</p> <p>This advice even applies to our national fetish for worrying about the availability of toilet paper. In this case, the current scarcities are caused by spot shortages that are temporary since it is not likely that people will be using MORE of the product during the pandemic. Be assured that supplies are already starting to catch up. Similarly, food shortages are a temporary (evening) phenomenon. Most people are not eating more (well – for the most part), so supply is already catching up with demand.</p> <p><b>Inspiration behind the scenes</b></p> <p>The incredibly fast catch-up of supply is a testament to the great people who run and operate U.S. supply chains. Behind the person who delivers food orders or the supermarket clerk who serves customers is a complex supply chain involving millions of men and women who make sure that vital supplies reach consumers. They carry out this taxing work in the face of unprecedented demand. These supply chain professionals and operators who continue to accomplish the impossible every day are the unknown and unsung heroes of the COVID-19 crisis.</p> <p>Source:<a href="https://www.scmr.com/article/time_is_now_to_honor_inspirational_supply_chain_providers">https://www.scmr.com/article/time_is_now_to_honor_inspirational_supply_chain_providers</a></p>		
8	Analyze the case. Identify the various types of supply chain risk associated with the situation based on frequency & severity (qualitative or quantitative)?	15	CO4
9	Discuss in short what are the various risk mitigation strategies that can be adopted in this situation in India	15	CO4