

<p>(internal choices with two questions corresponding to the same CO)</p> <p>Q. 4: (A). What assumptions shall be taken into consideration for getting a basic EOQ model? Explain the limitations due to which EOQ will work effectively. Does EOQ really work out?</p> <p style="text-align: center;">Or</p> <p>Q. 4: (B). A company needs 3000 kg annually of raw material to produce its products. The cost of Rs 300 incurred to place an order, the cost of raw material is Rs 150 per kg, and the cost of carrying 1 kg of raw material per year is Rs 10. So, calculate EOQ. Also, find how many orders can be placed in a year.</p> <p>(internal choices with two questions corresponding to the same CO)</p>	CO5																						
<p style="text-align: center;"><u>SECTION - C</u></p> <p>Read the case and answer the questions 5×02 = 10 Marks</p>																							
Questions	CO	Bloom's Level																					
<p>Q. 5: Case Study: Green Supply Chain at Eco Fresh Appliances Ltd.</p> <p>Eco Fresh Appliances Ltd. manufactures energy-efficient refrigerators using an environmentally responsible supply chain. The company emphasizes sustainable sourcing, waste reduction, and energy-efficient operations. The production objective is estimated to be 120 units per day. The production takes place for 8 hours per day.</p> <p>Workstations in the Assembly Line have the following information:</p> <table border="1" data-bbox="167 1265 1187 1691"> <thead> <tr> <th>Workstation</th><th>Task Description</th><th>Time per Unit (minutes)</th></tr> </thead> <tbody> <tr> <td>1. Frame Assembly</td><td>Assembling main frame</td><td>6</td></tr> <tr> <td>2. Insulation Fill</td><td>Filling eco-friendly foam</td><td>8</td></tr> <tr> <td>3. Door Assembly</td><td>Attaching the door and seals</td><td>10</td></tr> <tr> <td>4. Electrical Fitting</td><td>Wiring and electronics</td><td>7</td></tr> <tr> <td>5. Quality Testing</td><td>Energy efficiency and safety</td><td>5</td></tr> <tr> <td>6. Final Packaging</td><td>Boxing and labeling</td><td>4</td></tr> </tbody> </table> <p>Questions:</p> <p>Q. 5: (A). Calculate takt time, cycle time, and find the bottleneck. Does the actual throughput increase with queuing delays?</p> <p>Q. 5: (B). Provide an interpretation & bottleneck analysis for the case.</p> <p>(Entire Sec C to be assigned one CO. Both questions corresponding to the same CO)</p>	Workstation	Task Description	Time per Unit (minutes)	1. Frame Assembly	Assembling main frame	6	2. Insulation Fill	Filling eco-friendly foam	8	3. Door Assembly	Attaching the door and seals	10	4. Electrical Fitting	Wiring and electronics	7	5. Quality Testing	Energy efficiency and safety	5	6. Final Packaging	Boxing and labeling	4	CO6	
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Kindly fill in the total marks allocated to each CO's in the table below:

COs	Question No.	Marks Allocated
CO1	Q1	6
CO2	Q1	6
CO3	Q2	6
CO4	Q3	6
CO5	Q4	6
CO6	Q5	10

(Please ensure the conformity of the CO-wise marks allocation as per your TLEP.)

Bloom's Taxonomy Levels are given below for your ready reference:

L1= Remembering

L2= Understanding

L3= Apply

L4= Analyze

L5= Evaluate

L6= Create