

**Examination** : End Semester Examination – Nov-Dec 2022  
**Name of the Course** : B. Tech (Information Technology and Mathematical Innovations)  
**Name of the Paper** : Production and Operation Management  
**Paper Code** : 32867504  
**Semester** : V  
**Duration** : 2 Hours  
**Maximum Marks** : 40  
**Instructions** : This question paper contains six questions, out of which any four are to be attempted. Each question carries equal marks.

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1. Has automation helped humans by reducing their burden or it has taken away their efficiency by making them dependent on machines? Validate your argument.
2. "The major objective of production management is to produce quality goods and services". Does this hold good in modern scenario? Give examples of companies that have deviated from this.
3. What do you mean by Control Charts in Process Control? Write the maintenance and usage of Control Chart.
4. "In order to be successful change must take place rapidly". Explain with reference to KAIZEN.
5. Inventory control system may need to be modified as demand, costs, and competitive pressures changes. Explain this statement.
6. Suppose you purchase a flashlight at Wal-Mart. The cash register reads the bar code price tag and reportedly within fourteen seconds, the Wal-Mart central warehouse is notified that the Wal-Mart retail store needs a new flashlight for the shelf to replenish the purchased item. Further, the manufacturer is also notified that the Wal-Mart central warehouse needs a new flashlight. Even the raw material suppliers are notified that the manufacturer now needs a little more raw materials (plastic housing, switch, light bulb, etc.), and so it goes - all the way up the supply chain. Analyse the process. Do you think Wal-Mart has a strong supply chain network? Is there any fault in their system?