

MTH601 - Operations Research - Final Term Paper

MTH601 - Operations Research - Q. No. 2 M - 01

According to _____ strategy, replace an item if it fails before the optimum period 'P'

- IR
- IPR
- CPR (Common Preventive Replacement)

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In purchasing model with shortage, the formula of Ordering Size is

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Similarity between CPM and PERT is

- Both are used to plan the scheduling of individual activities that make up a project
- Both can be used to determine the earliest/latest start and finish time for each activity
- All of the above

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The arrival rate of customers at a banking counter follows Poisson distribution with a mean of 45 customers per hour. The service rate of the counter clerk also follows Poisson distribution with a mean of 60 customers per hour.

Find the following

1. The probability of having 10 customers in the system
2. Average number of customers waiting in the system
3. Average number of customers waiting in the queue
4. Average waiting time of customers in the system
5. Average waiting time of customers in the queue

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The formula for expected number of customers in a system is

- $L = \lambda / (\mu - \lambda)$
- $L = \lambda / (\lambda - \mu)$ or $L = \mu / (\lambda - \mu)$ or $L = \mu / (\mu - \lambda)$

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For LP problem with ' n ' decision variables, each of its corner point solution is at the intersection of constraint boundaries.

- $(n - 1)$ constraint boundaries
- ' n ' constraint boundaries
- $(n + 1)$ constraint boundaries
- None of the above

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In two dimensional LP problem we need only two lines to identify an extreme point. If in any two dimensional problem there are three or more intersecting lines at the corner point then this indicate that

- Problem has Degenerate Solution
- One of the constraints is redundant
- Both First and Second
- None of the above

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A transportation problem is degenerate, if while deriving a feasible solution an allocation to any cell

- Satisfies the Column requirements
- Satisfies the Row requirements
- Satisfies column as well as row requirements simultaneously
- None of the above