

RAM Practice Test Questions and Answers

1. What is the main objective of preventive maintenance?

- A) To eliminate maintenance costs
- B) To reduce unexpected failures through scheduled servicing
- C) To increase system breakdowns
- D) To replace functional components frequently

2. What is the primary goal of RAM-driven LCC optimization?

- A) Minimize the initial purchase price regardless of long-term costs
- B) Balance reliability investment against reduced failure and support costs to minimize total LCC
- C) Maximize system performance without regard to cost
- D) Eliminate all preventive maintenance to reduce expenditures

3. What does the PDCA cycle stand for in quality management?

- A) Price, Demand, Cost, Assessment
- B) Plan, Do, Check, Act
- C) Prepare, Document, Certify, Approve
- D) Predict, Design, Create, Adapt

4. What is the hazard function $h(t)$ in reliability statistics?

- A) The total number of failures expected over the system's design life
- B) The instantaneous failure rate at time t given survival to that time
- C) The probability of failure before time t
- D) The average time between consecutive failures

Answers: 1-B 2-B 3-B 4-B

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