



Başlangıç Cuma, 5 Ocak 2024, 12:54 ÖS

Durum Biten

Tamamlanma Cuma, 5 Ocak 2024, 1:04 ÖS

Geçen süre 9 dk 40 sn

Not 10,00 üzerinden **10,00 (100%)**

Soru **1**

Doğru

5,00 üzerinden 5,00
notunu ver

Find the correct matchings.

The system is designed so that faults in the delivered software do not result in system failure

Fault tolerance



The probability of failure-free system operation over a specified time in a given environment for a given purpose

Reliability



The system is developed in such a way that human error is avoided and thus system faults are minimised

Fault avoidance



Verification and validation techniques are used to discover and remove faults in a system before it is deployed

Fault detection



The probability that a system, at a point in time, will be operational and able to deliver the requested services

Availability



Cevabınız doğru.

Doğru cevap:

The system is designed so that faults in the delivered software do not result in system failure → Fault tolerance,

The probability of failure-free system operation over a specified time in a given environment for a given purpose → Reliability,

The system is developed in such a way that human error is avoided and thus system faults are minimised → Fault avoidance,

Verification and validation techniques are used to discover and remove faults in a system before it is deployed → Fault detection,

The probability that a system, at a point in time, will be operational and able to deliver the requested services → Availability

Soru **2**
Doğru
3,00 üzerinden 3,00
notunu ver

Find the correct matchings.

Reflects the rate of occurrence of failure in the system ✓

Rate of fault occurrence (ROCOF)

The probability that the system will fail when a service request is made ✓

Probability of failure on demand (POFOD)

Measure of the fraction of the time that the system is available for use ✓

Availability



Cevabınız doğru.

Doğru cevap:

Reflects the rate of occurrence of failure in the system → Rate of fault occurrence (ROCOF),

The probability that the system will fail when a service request is made → Probability of failure on demand (POFOD),

Measure of the fraction of the time that the system is available for use → Availability

Soru **3**
Doğru
2,00 üzerinden 2,00
notunu ver

Find the correct matchings.

Multi-channel architectures where the system monitors its own operations and takes action if inconsistencies are detected ✓

Self-monitoring architectures

A specialized system that is associated with some other control system, which can take emergency action if a failure occurs ✓

Protection systems

Cevabınız doğru.

Doğru cevap:

Multi-channel architectures where the system monitors its own operations and takes action if inconsistencies are detected → Self-monitoring architectures,

A specialized system that is associated with some other control system, which can take emergency action if a failure occurs → Protection systems