Course Content of Oracle NAS Administration Solaris 10(Storage Fundamentals):

Storage Overview

- State the significance of the storage industry today
- State Sun's vision of storage
- Identify the features of Sun's vision of storage

Data Transfer Technologies and Physical Connectors

- Define the Sbus and PCI Bus
- Define integrated development environment (IDE) devices
- Define SCSI technology and circumstances under which it is an appropriate data transfer technology to utilize based on performance, availability, and cost
- Correlate the SCSI standard to images of SCSI connectors
- Define the Fibre Channel Bus and list its advantages and limitations
- Define the types of Fibre Channel, including Fibre Channel Arbitrated Loop (FC-AL), and list the advantages and limitations of each
- Correlate the Fibre Channel standard to images of Fibre Channel connectors

Network Devices

- Define Host Bus Adaptors (HBA) and versions (including PCI and SBus) and determine which of the versions is more appropriate in a given circumstance
- Define gigabit interface converters (GBICs)
- Identify advances in GBIC technology embodied in the small form factor GBIC compared to the standard
- Define a Hub and its use with storage
- Define the purpose of switches and identify the circumstances under which the use of a switch is more appropriate than a hub
- Define the types of cabling and distinguish their advantages and limitations

Arrays

- Identify the definition of an array storage system and a JBOD
- Identify standard array components
- Consider array selection criteria based on capacity, speed, availability, cost, multipathing, and scalability

RAID

- Describe redundant array of independent disks (RAID) and define the features that make up a RAID configuration
- Describe RAID levels and specific applications and performance characteristics
- Define and differentiate between software and hardware implementation of RAID with respect to performance

Tape Library Storage Backup Systems

- Identify two types of tape technologies, digital linear tape (DLT) and linear tape open (LTO), and state the purpose of each
- Identify standard tape library components, including tape, tape drives, robotics, controllers, and I/O subsystems
- Define the criteria associated with tape libraries and how they are implemented, including speed and capacity

Storage Configurations

- Describe the use and structure of NAS, especially in relation to its advantages and limitations
- Describe the use and structure of DAS, especially in relation to its advantages and limitations
- Describe the use and structure of SAN, especially in relation to its advantages and limitations

Storage Virtualization

- Define storage virtualization

Define Data Services

- Describe network data replication and its advantages and limitations
- Describe point-in-time copy and its advantages and limitations

Storage Management Software

- Describe the issues related to resource management and the types of software solutions available
- Describe the issues related to storage network management and types of the software solutions available
- Describe the issues related to component management and the types of software solutions available