

Exam : HP HP0-P19

**Title : HP-UX High Availability
Using Serviceguard v18**

Version : Demo

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1. Which components are considered potential single points of failure within a single HP-UX server? (Select four.)

- A. SAN
- B. memory
- C. backplane
- D. DVD drive
- E. LAN interfaces
- F. mirrored root disks
- G. system administrator
- H. redundant power supply
- I. Fibre Channel Host Bus Adapter

Answer: BCEI

2. Which statement is correct concerning the difference between a local Serviceguard cluster and an extended distance cluster (also known as a campus cluster)?

- A. An extended distance cluster provides disaster tolerance across two data centers located on different continents.
- B. An extended distance cluster solution typically requires a physical data replication mechanism between high end storage arrays.
- C. An extended distance cluster solution typically uses host based disk mirroring between two computer rooms in an IT environment.
- D. An extended distance cluster is a separate product installation to implement High Availability between two computer rooms in a IT environment.

Answer: C

3. Consider the following entry in the /etc/rc.config.d/cmcluster file.

```
AUTOSTART_CMCLD=1
```

Which parameter in the cluster ascii file is affected by this entry?

- A. CMCLD_TIMEOUT
- B. CMCLD_RUN_START
- C. AUTOSTART_CMCLD
- D. AUTOSTART_TIMEOUT

E. HEARTBEAT_INTERVAL

Answer: D

4. What is the function of the lock disk or Quorum server in a Serviceguard cluster?

- A. prevents split brain syndrome
- B. determines which node becomes the cluster coordinator
- C. ensures that quorum is present the entire time the cluster is up
- D. keeps a record of volume groups that are locked in exclusive mode

Answer: A

5. Click the Exhibit button.

Based on the cmviewcl output, which statement is correct?

- A. A failure of ora_lsnr will cause alien_pkg to failover.
- B. A single failure of oracle9i will cause alien_pkg to failover.
- C. The subnet 192.168.1.0 going down will cause alien_pkg to failover.
- D. A failure of either ora_lsnr or oracle9i will cause alien_pkg to failover.

Answer: C

6. When implementing a legacy package utilizing application monitoring, which variable in the package control script will point to the monitor script?

- A. service_cmd
- B. SERVICE_CMD
- C. MONITOR_CMD
- D. MONITOR_NAME

Answer: B

7. Which application templates are included in the Enterprise Cluster Master Toolkit (ECMT)? (Select four.)

- A. NFS
- B. SAP
- C. SAPDB
- D. HP Tomcat
- E. HP Apache
- F. HP CIFS/9000
- G. Oracle 9i and 10g

Answer: DEFG

8. Which statements are true regarding Serviceguard Manager version 5.01? (Select three.)

- A. Serviceguard Manager is a graphical user interface for the Serviceguard product.
- B. With Serviceguard Manager you can monitor, administer, and configure clusters managed by Serviceguard.
- C. With Serviceguard Manager you can run a multinode cluster which consists of both HP-UX and Linux nodes.
- D. With Serviceguard Manager you can change package-switching and node-switching flags for failover packages.
- E. With Serviceguard Manager you can install Serviceguard software product on hosts managed by HP Systems Insight Manager (HP SIM).

Answer: ABD

9. In the context of high availability, which phrase describes Mean Time Between Failure (MTBF)?

- A. mean time to restart a failed service
- B. mean time to repair a server after a failure
- C. mean time to restart a server after a failure
- D. mean time a system provides service without failure

Answer: D

10. In the context of high availability, which phrase describes Mean Time To Repair (MTTR)?

- A. mean interval of time to resume a service after a failure
- B. mean time a service engineer needs to repair a failed server
- C. mean interval of time when the system provides service without fault
- D. mean time a service engineer needs to replace a server after a failure
- E. mean time a service engineer needs to arrive at the site of a failed server

Answer: A

11. In the context of high availability, which statements are true regarding split-brain syndrome? (Select two.)

- A. It can occur on a 2-node cluster.
- B. It can occur on a 3-node cluster.
- C. It allows different applications to simultaneously access the same disk.

- D. It allows different partitions to access the same disk without knowledge of each other.
- E. It is caused when two clusters initiate an application that accesses the same disk simultaneously.
- F. It is caused when two equal size sub-clusters form from a single cluster without knowledge of each other.

Answer: AF

12. An e-ticketing application based on Apache webserver for a busy tourist market experiences failures during peak season, resulting in loss of revenues.

Which product combination implements a solution that improves availability of the e-ticketing application?

(Select two.)

- A. HP Serviceguard
- B. Continental Clusters
- C. HP Serviceguard Extension for SAP
- D. Enterprise Cluster Master Toolkit
- E. HP Serviceguard Extension for RAC

Answer: AD

13. Which statements are true regarding High Availability (HA)? (Select three.)

- A. Downtime is any amount of time when the application is unavailable (planned or unplanned).
- B. HA systems provide a disaster tolerant solution that allows recovery from the loss of an entire data center.
- C. Unplanned downtime is be caused by a failure of a non-redundant hardware component on a cluster node.
- D. Metrocluster and Extended Campus Cluster solutions provide the same level of protection as a local HA solution in case of environmental disasters.
- E. HA is a combination of environmental, process, software, and computing hardware enhancements that maximize the time that the application and system are available.
- F. Highly available systems typically contain data redundancy through mirroring or RAID, some kind of backup system hardware, power outage protection, and multiple LANs.

Answer: AEF

14. Which products offer a solution to protect from failure of a complete data center? (Select three.)

- A. Metrocluster
- B. Serviceguard

- C. Continentalclusters
- D. Extended Campus Cluster
- E. Enterprise Cluster Master Toolkit

Answer: ACD

15. In which situations can a local high availability solution prevent unplanned downtime? (Select two.)

- A. An operator accidentally reboots a cluster node.
- B. The shared storage component loses A/C power and goes down.
- C. A complete data center goes down because of an environmental disaster.
- D. The network communication between the cluster nodes is permanently interrupted.
- E. The clustered application database becomes corrupted by installation of an application patch.

Answer: AD

16. What is the purpose of the cluster interconnect in a Serviceguard extension for Oracle RAC implementation? (Select two.)

- A. Nodes can use it for cluster heartbeat traffic.
- B. Nodes coordinate the shared storage status.
- C. Oracle single instances coordinate their online/offline status.
- D. Oracle RAC instances coordinate the consistency between their Oracle buffer cache.

Answer: AD

17. What are the main features of OL* (OnLine Replacement, Addition, and Deletion)? (Select two.)

- A. ability to replace a cell board on an HP-UX system that supports OL*
- B. ability to repair a PCI I/O card on an HP-UX system that supports OL*
- C. ability to online replace a PCI I/O card on an HP-UX system that supports OL*
- D. ability to online remove a PCI(-X) card on an HP-UX system that supports OL*
- E. ability to online replace an HP-UX system that supports OL* while it is configured in a Serviceguard cluster
- F. ability to online remove a PCI(-X) LAN card and afterwards to online add a PCI(-X) FC HBA in the same PCI(-X) slot on an HP-UX system that supports OL*

Answer: CD

18. What does OL* (OnLine Replacement, Addition, and Deletion) provide?

- A. online replacement, addition, and deletion of vPARs

- B. online replacement, addition, and deletion of PCI(-X) I/O cards
- C. online replacement, addition, and deletion of cell boards in cell based systems
- D. online replacement, addition, and deletion of PCI(-X) I/O cards and core I/O cards

Answer: B

19. A customer has a 2-node HP Serviceguard cluster running a mission critical Oracle database and a financial application. At the end of each month the server utilization spikes with no idle CPU resources and there is a need for additional capacity.

Which HP Virtual Server Environment offering provides additional capacity and is best in this situation?

- A. Capacity Advisor
- B. Instant Capacity (iCAP)
- C. Integrity Virtual Machines
- D. Global Workload Manager (gWLM)
- E. Temporary Instant Capacity (TiCAP)

Answer: E

20. When a Serviceguard package fails over in a highly available vPar environment, Workload Manager (WLM) integrates with Serviceguard and disaster tolerant solutions by doing which process?

- A. WLM creates a new vPar to assume the load of the failed partition.
- B. cmcld creates a new vPar to assume the load of the failed partition.
- C. WLM moves processor resources from one virtual partition to another.
- D. cmcld moves processor resources from one virtual partition to another.
- E. WLM can move a Serviceguard package from one virtual partition to another.

Answer: C

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