

Hard Disk Drive Pop Quiz

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This pop quiz is designed to help prepare you for the CompTIA A+ Certification examination for the portion covering the hard disk drive and related hard disk drive storage information. The information in the textbook, as well as our web article or classroom handout titled [MBR and EFI Disk Partition](#) will prepare you for this test as well as the CompTIA + and even the Microsoft tech support examinations.

See more practice test and study materials at www.RMRoberts.com

1. What are the two standard hard disk drive connection cable types?
 - A. RS-232 and PATA
 - B. IDE and EIDE
 - C. PATA and SATA
 - D. DMA and ATA

2. What are the three technical terms used to describe the physical arrangement of disk drive storage area locations?
 - A. Cylinder, platter, and row
 - B. Sector, track, and cylinder
 - C. Sector, row, and spindle
 - D. Row, path and sector.

3. How many bytes are in the smallest sector?
 - A. 512
 - B. 1024
 - C. 2048
 - D. 4096

4. What are the most commonly configured RAID systems in a Microsoft Windows environment?
 - A. RAID 0, 1, 5
 - B. RAID 1, 2, 3
 - C. RAID 1, 2, 5
 - D. RAID 0, 5, 10

5. Which command line tool is used to inspect a partition and create partitions in a Windows 7 environment?
 - A. Fdisk
 - B. Diskpart

- C. Format
- D. Dir

6. Which is the default disk format used by Windows 7?

- A. FAT16
- B. FAT32
- C. NTFS
- D. EXT

7. Which RAID system provides no fault protection?

- A. 0
- B. 1
- C. 5
- D. Both 0 and 1

8. What are the two choices of disk partition styles during the disk initialization period?
(Select two.)

- A. RAID
- B. ATA
- C. MBR
- D. GPT

9. What is another name for BIOS?

- A. POST
- B. Initiator
- C. OS
- D. Firmware

10. What is the maximum size of hard disk drive supported by the original MBR?

- A. 1 GB
- B. 32 GB
- C. 512 GB
- D. 1TB

11. What does the acronym MBR represent?

- A. Master Broadcast Record
- B. Master Boot Record
- C. Mega Boot Record
- D. Multiple Boot Record

12. What does the acronym EFI represent?

- A. Extensible Firmware Interface
- B. Expandable File Interface
- C. Extended Firmware Interface
- D. Enhanced Firmware Interface

13. What is the maximum size partition supported by GPT?

- A. 1 GB
- B. 100 TB
- C. 512 TB
- D. 18 EB

14. You are adding a new hard disk drive to an existing Windows 7 machine. What must be done first?

- A. Partition the disk
- B. Format the disk
- C. Initialize the disk
- D. low level format the disk

15. What partition style is recommended for partitions of 2 TB or larger?

- A. GPT
- B. MBR
- C. FAT12
- D. Smart Drive

16. Which partition typically has no drive letter assigned?

- A. Boot partition
- B. Reserved partition
- C. Active partition
- D. Extended partition

17. What is the maximum number of primary partitions supported by MBR?

- A. 1
- B. 4
- C. 32
- D. 512

18. What is the maximum number of primary partitions supported by GPT?

- A. 1
- B. 128

- C. 512
- D. 1024

19. Which statements are true concerning MBR and GPT? (Select two.)

- A. MBR has no backup partition table.
- B. GPT has backup partition table.
- C. MBR has a backup partition table.
- D.B. GPT has no partition table.

20. What is the maximum partition size for FAT16?

- A. 1 GB
- B. 2GB
- C. 1 MB
- D. 1 TB

21. What type of partition table is associated with EFI?

- A. MBR
- B. GPT
- C. DUI
- D. ATA

22. How many ESP partitions are required?

- A. One ESP partition per hard disk drive.
- B. One ESP partition for each volume.
- C. One ESP partition for each extended partition.
- D. One ESP partition is required per machine.

23. Which statement is true concerning machines with MBR?

- A. MBR type hard disk drive can contain up to four primary partitions or three primary partitions and one extended partition.
- B. MBR type hard disk drive can contain up to four primary partitions or one primary partition and multiple extended partitions.
- C. MBR type hard disk drive can contain up to one primary partition or one active partition and 128 extended partitions.
- D. MBR type hard disk drive can contain only one primary partition and one extended partition containing up to 128 logical partitions.

24. Which statement is true concerning EFS?

- A. When an EFS partition is created it takes priority over both, the MSR partition and the primary partition.
- B. The EFS partition can only be created using Fdisk command utility.
- C. The EFS partition can only be created using Diskpart command utility.
- D. EFS are not created by default by the Windows 7 operating system.

25. Which Windows operating system can support 64-bit versions of Windows? (Select all that are correct.)

- A. Windows 2000
- B. Windows XP
- C. Windows Vista
- D. Windows 7

The EFS partition is created by Extensible Firmware Interface firmware or by using the DiskPart command tool. The MSR partition is created when a new Windows operating system is installed and the hard disk drive is partitioned. The MSR partition is not created when Windows is installed on an existing hard disk drive that was already partitioned. The Primary partition is also created by the Microsoft operating system during the installation process.

The Proprietary Recovery Partition is an optional partition created by the system or original equipment manufacturer (OEM.)

Note: You can only boot from an EFI type of firmware system to a GPT type disk when using the 64-bit versions of Windows XP, Vista or 7 operating systems. The EFI to GPT is not an available option for 32-bit operating systems at this time.

The UEFI standard calls for the master boot record to be located first on the hard disk drive followed by the Primary GPT.

Answers

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A. 512
4. What are the most commonly configured RAID systems in a Microsoft Windows environment?
A. 0, 1, 5
5. Which command line tool is used to inspect a partition and create partitions in a Windows 7 environment?
B. Diskpart
6. Which is the default disk format used by Windows 7?
C. NTFS
7. Which RAID systems provide no fault protection?
A. 0
8. What are the two choices of disk partition styles during the disk initialization period? (Select two.)
C. MBR
D. GPT
9. What is another name for BIOS?
D. Firmware
10. What is the maximum size of hard disk drive supported by the original MBR?
D. 1TB
11. What does the acronym MBR represent?
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12. What does the acronym EFI represent?
A. Extensible Firmware Interface
13. What is the maximum size partition supported by GPT?
D. 18 EB
14. You are adding a new hard disk drive to an existing Windows 7 machine. What must be done first?
C. Initialize the disk
15. What partition style is recommended for partitions of 2 TB or larger?
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16. Which partition typically has no drive letter assigned?
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B. 4
18. What is the maximum number of primary partitions supported by GPT?
B. 128
19. Which statements are true concerning MBR and GPT? (Select two.)
A. MBR has no backup partition table.
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20. What is the maximum partition size for FAT16?
B. 2GB
21. What type of partition table is associated with EFI?
B. GPT
22. How many ESP partitions are required?
D. One ESP partition is required per machine.
23. Which statement is true concerning machines with MBR?
A. MBR type hard disk drive can contain up to four primary partitions or three primary partitions and one extended partition.
24. Which statement is true concerning EFS?
A. When an EFS partition is created it takes priority over both, the MSR partition and the primary partition.
25. Which Windows operating system can support 64-bit versions of Windows? (Select all that are correct.)
B. Windows XP
C. Windows Vista
D. Windows 7