

CS609-System Programming FINAL TERM MCQS Prepared by: JUNAID MALIK

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1. The _____ signals are used by various devices to request a DMA operation.

- **DREQ** PG #186
- REQ
- DRE
- None of the given

2. DMA works in _____ modes.

- 2
- **3** PG #188
- 5
- 7

3. DMA Request register can be used to simulate a DMA request through software in case of _____.

- I/O to memory transfer
- None of the given
- **Memory to memory transfer** PG #192
- Memory to I/O transfer

4. _____ are the circular division of the disk.

- **Tracks** PG #201
- Sectors
- Blocks
- None of given

5. Blocks are _____.

- **Sectors per track** PG #202
- Track per sector
- Cylinder per track
- None of the given

6. Last _____ bytes of data part in partitioning table are the partition table signature.

- **2** PG #218
- 4
- 6
- 8

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7. Information about further partitioned drives is available at physical block of extended partition.

- **First** PG #222
- Second
- Third
- Fourth

8. _____ will be used to get drive parameters.

- Int 13H/42H
- **Int 13H/48H** PG #238
- Int 13H/66H
- Int 13H/66H

9. Inside a boot block operating system name occupies bytes.

- 3
- 5
- **8** Not sure
- 11

10.

A programmer wants to access the DPB(Drive Parameter Block) for C drive using undocumented service 21H/32H, what he should place in DL register _____?

- **0** PG #249
- 1
- 2
- 3

20. Blocks for FAT can be accessed using__.

- BPB
- DPB
- **FCB**
- Both BPB and DPB.

21. In main memory smallest addressable unit is__.

- **Byte**
- Nibble

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- Word
- None of the given

22. Using the root directory entry and the ____, we can access the contents of File.

- Reserved Blocks
- Number of FAT copies

➤ **File Allocation Table(FAT)** PG # 241

- None of the given

23. If a file is having more than one cluster then it will be managed by

- FAT
- BPB
- DPB
- **None of the given**

24. Practically in FAT 32, total number of entries are ____.

- 2^{26}
- 2^{28}
- 2^{30}

➤ **2^{32}**

25. _____ keeps the back up of its boot block.

- FAT 12
- FAT 16

➤ **FAT 32**

- None of the given

26. NTFS can store file name in _form.

- **UNICODE**
- Both ASCII and UNICODE
- None of the given
- ASCII

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27. FAT based file system can store file name in__ form.

- ASCII
- UNICODE

➤ **Both ASCII and UNICODE**

- None of the given

28. The LSN of first logical sector of NTFS partition is_.

- **0** **PG # 240**
- 1
- 2
- 3

29. To minimize_____defragmenter is used.

- **Seek time** **PG # 316**
- Access time
- Rotational delay
- Both seek and access time

30. In memory map of first 1 MB of RAM, the higher__is called system memory.

- 64 KB
- **384 KB** **PG # 317**
- 640 KB
- None of the given

31. Extended memory can be accessed in__mode.

- Real
- **Protected**
- Both real and protected
- None of the given

32. Extended memory can be accessed only after installing the driver.

- EMM386.EXE
- **HIMEM.SYS** **PG # 318**
- IO.SYS
- None of the given

33. DOS uses_____memory allocation system.

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➤ **Contiguous** **PG # 325**

- Non Contiguous
- Both Contiguous and Non Contiguous
- None of the given

34. In protected mode segment register will be called ___.

➤ **Selector** **PG # 326**

- Descriptor
- IDT
- Both Selector and Descriptor

35. There are ___ Control registers in 80386 and above systems.

- 2

➤ **4** **PG # 331**

- 8
- 16

36. If the CHS (cylinder, head, and sector) address of a disk is known it can be translated in to the _____ address and viceversa.

- Logical

➤ **LBA** **PG # 213**

- Physical
- None of the Given

37. _____ is a data structure maintained by DOS in the boot block for each drive.

- DPB

➤ **BPB** **PG # 242**

- FCB
- None of the Given

38. System Stores the DPBs (Drive Parameter Block) for different drives in the form of _____.

- Chain / link list
- Array

➤ **Table** **Not sure**

- None of Given

39. The extension of a compiled TSR (Terminate and Stay Resident)

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program should be _____

➤ .EXE

➤ **.COM**

➤ .CPP

➤ .C

44. _____ is LED control byte.

➤ 0xF3

➤ **0xED** PG # 181

➤ 0xE5

➤ 0xFF

45. The DMA requests to acquire buses through the _____ signal.

➤ **OLD** PG # 186

➤ ACR

➤ ACK

➤ All of the given

46. _____ will specify if the next DMA transfer will happen as a single transfer, block transfer or demand transfer

➤ DMA Request register

➤ DMA Mask register

➤ **DMA Mode register**

➤ DMA Command register

47. _____ will specify if the channel is to cascade two DMA controllers.

➤ DMA Request register

➤ DMA Mask register

➤ **DMA Mode register**

➤ DMA Command register

48. _____ are the longitudinal division of the disk.

➤ Tracks

➤ **Sectors** PG # 201

➤ Blocks

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- None of given

51. Highest physical capacity of the disk

according to the IDE interface is

- 504 MB
- 80 GB
- **127 GB PG # 212**
- 300 GB

52. In partition table, first_bytes contain code which loads the boot block of active partition.

- 128
- 286
- **446 PG # 218**
- 500

53. On a single disk there can be __ different Operating Systems.

- 2
- **4 PG # 219**
- 6

54. _____ is physical or absolute address.

- **LBA PG # 240**
- LSN
- CHS
- None of the given

55. The _____ block is the first block on disk.

- LSN =0
- **LBA=0 PG # 240**
- Both LBA=0 and LSN=0
- None of the given

56. A directory is collection of_.

- Bios Parameter Blocks
- Drive Parameter Blocks

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➤ File Control Blocks

- None of the given

57. First cluster in user data area is numbered ____ in a FAT based systems.

- 0
- 1

➤ **2** PG # 258

- 3

58. Blocks for FAT can be accessed using__.

- BPB
- DPB

➤ FCB

- Both BPB and DPB.

59. In FAT12 to calculate the address or offset from index, we need to multiply it with_____.

- 1/2

➤ **3/2** PG 267

- 5/2
- 7/2

60. Using the root directory entry and the ____, we can access the contents of File.

- Reserved Blocks
- Number of FAT copies

➤ File Allocation Table(FAT)PG #269

- None of the given

61. In FAT16 if FAT entry is between FFF0H to FFF6H then_.

- Cluster is available
- **It is a Reserved cluster**
- It is next file cluster
- It is a last file cluster

62. _____ needed to store a UNICODE character.

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➤ Nibble

➤ **2 Bytes**

➤ 4 Bytes

➤ Byte

63. _____ used for FCB in FAT 12 and FAT 16.

➤ Nibble

➤ Byte

➤ **2 Bytes**

➤ 4 Bytes

64. _____ file system is used in CD's.

➤ None of the given

➤ **Contiguous**

➤ Chained

➤ Indexed

65. FAT based file system can store file name in __ form.

➤ ASCII

➤ UNICODE

➤ **Both ASCII and UNICODE**

➤ None of the given

66. In case of _____ contents, the indexes of clusters of file are stored in MFT.

➤ Small files

➤ Large files

➤ **Both small and large files**

➤ None of the given

67. PC's operated on 20 bit address bus can operate in __ mode.

➤ **Real** PG # 319

➤ Protected

➤ Both real and protected

➤ None of the given

68. Int 21H/52H returns the address of DOS internal data structures in ES: BX, the far address of the first MCB in memory lies

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_____ behind the address returned.

- 2-bytes
- **4-bytes**
- 6-bytes
- 8-bytes

69. In memory management, descriptor entry is of bytes.

- **64**
- 32
- 8
- 16

70. There are ___ Control registers in 80386 and above systems.

- 2
- **4 PG # 331**
- 8
- 16

71. Control Registers are used for conveying certain control information for _____ Addressing and Co-Processors.

- Real Mode
- **Protected Mode PG # 331**
- Virtual Mode
- None of the given

72. The least significant bit of Control register ___ is PE-bit which can be set to enable Protected Mode Addressing.

- **CR0**
- CR1
- CR2
- CR3

73. CD.. command gives the _ of directory.

- None of the given
- One previous level
- One next level
- **Current path PG #282**

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74. Cluster size is variable and can be measured in power of__.

➤ **2**

- 16
- 4
- 8

75. Who notifies the end of interrupt (EOI) to the programmable interrupt controller?

➤ Programmer

➤ **Microprocessor**

- Operating system
- None of the given

76. Choose the correct statement to notify the interrupt controller about end of interrupt (EOI).

➤ Inportb(0x20,0x20)

➤ **Outportb(0x20,0x20)**

- Outportb(0x30,0x22)
- None of the given

77. Information about Pending interrupts are held by__.

➤ Interrupt Service Register

➤ Interrupt Mask Register

➤ None of the Given

➤ **Interrupt Request Register**

78. BPB stands for__.

➤ **BIOS parameter block**

- BIOS processing block
- Base processing block
- BIOS partition block

79. The input frequency used by the interval timer is the signal generated by the clock generator.

➤ None of Given

➤ **PCLK**

➤ ACL

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➤ ICP

80. BIOS DO NOT support_____.

➤ LPT1

➤ LPT2

➤ LPT3

➤ **LPT4**

81. DTE is_____.

➤ **Data terminal equipment PG #109**

➤ Data transmitting equipment

➤ Dual terminal equipment

➤ None of the given.

82. Int 14H_____ can be used to send a byte.

➤ Service # 0

➤ **Service # 1**

➤ Service # 2

➤ Service # 3

83. A single DMA can transfer_operands to and from memory in a single a bus cycle.

➤ **8 bit**

➤ 16 bit

➤ 32 bit

➤ 64 bbit

85. _____ DMA does not work in_ mode.

➤ **Double Mode**

➤ Block Transfer

➤ Demand Transfer

➤ None of the given

86.

An addressable unit on disk can be addressed by three parameters_____

➤ **head #, sector # and track #**

➤ HD #, AH# and track #

➤ Hd0 #, sector # and track #

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- None of the given

87.

Each addressable unit has a unique combination of sec#, head# and track# as its ___ address.

- Both Physical and Logical
- None of the given
- **Physical**
- Logical

88. In partition table, first ___ bytes contain code which loads the boot block of active partition.

- 128
- 286
- **446**
- 500

89.

On a single disk there can be ___ different Operating Systems.

- 2
- **4**
- 6
- 8

90.

The last partition table within the chain contains ___ entry/entries about the logical drive.

- **Single**
- Double
- Three
- Four

91.

Partition Table can be read using the extended ___ Services.

- 13H

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➤ **14H**

- 15H
- 17H

92.

File control block (FCB) is _____ byte long.

- 8
- 16
- **32**
- 64

93. _____ is collection of contiguous blocks.

➤ **Cluster**

- Sector
- File
- Directory

94. A FAT 12 table can have maximum _____ values.

- 1024
- 2048

➤ **4096**

- None of given

95.

The first cluster number of file can be found in _____.

- BPB
- DPB

➤ **FCB**

- None of the given

96.

In FAT12 if FAT entry is 000H then.

- It is a last file cluster
- Cluster is available

➤ **It is a Reserved cluster**

- It is next file cluster

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97.

Total number of clusters of FAT12 are_____.

- FF0 H
- FFF H
- FEF H
- **FEE H PG # 266**

98.

When we mark a file as deleted by placing 0xE5 then the chain of clusters in FAT is also replaced by_____

- E5
- **0**
- 1
- N

99.keeps the back up of its boot block.

- FAT 12
- FAT 16
- **FAT 32**
- None of the given

100. Up to bytes can be used to store a file name in NTFS.

- 30
- 126
- **254**
- 510

101.

First logical sector of NTFS partition is_.

- DPB
- MFT
- **Boot sector**
- None of the given

102. In case of_____the contents of file are stored in MFT.

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- Small files
- Large files
- **Both small and large files**
- None of the given

103.

Interrupt Descriptor Table can have up to ___ entries.

- 64
- 128
- **256**
- 512

104.

There can be ___ different descriptors privilege levels.

- 2
- **4**
- 8
- 10

105.

In NTFS, Block #_is the safest block to store the back up of boot block.

- 8
- **10** **Not sure**
- 20
- 6

106.

Size of single entry in Partition Table is ___

- **512 bytes**
- 128 bytes
- 64 bytes
- 16 bytes

107.

MBR partition table can have ___ entries at maximum

- 1

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- 2
- 3
- **4** **Not sure**

108. ___ is used to identify the cause of interrupt.

- Interrupt Enable register
- **Interrupt ID register**
- Interrupt Status register
- None of the given

109.

To access battery powered RAM, only ___ ports are important from programming point of view.

- **70 and 71H** **PG # 141**
- 71 and 72H
- 70 and 72H
- 72 and 73H

110.

The DMA requests to acquire buses through the ___ signal.

- **HOLD** **PG # 186**
- ACR
- ACK
- All of the given

111. ___ used to program various common parameters of transfer for all the channels.

- None of the above
- DMA Status Register
- **DMA Command Register** **PG # 191**
- DMA Request Register

112. Bit # ___ of mode register in DMA determine the direction of a transfer.

- **2**
- 3

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- 4
- 5

113.

Highest capacity of disk can be accessed using BIOS functions is_____.

- 128 MB
- 256 MB
- **504 MB** **PG # 211**
- 127 GB

114.

DOS has built in limit of___blocks per cluster.

- 32
- 64
- **128** **PG # 242**
- 256

115.

BIOS Parameter block is situated in_Block.

- **Boot** **PG # 242**
- Data
- Extended Data
- None of Given

116. The___block is the first block on disk.

- LSN =0
- **LBA=0** **PG # 240**
- Both LBA=0 and LSN=0
- None of the given

117. Inside a boot block jump code part occupies_____byte.

- 5
- 8
- 11
- **3** **PG # 244**

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118.

In boot block BIOS parameter block starts from___.

- 03H
- 05H
- 08H
- **0BH**

119.

Total number of cluster of FAT16 is_

- FFF0 H
- FFFF H
- FFEF H
- **FFEE H** **Page 272**

120. Total___fragments can be supported for storing long file names.

- 26
- 28
- **32**
- 48

121. MCB is a bytes data structure.

- 8
- **16** **PG # 321**
- 32
- 64

122.

Real mode does not support___memory allocation system.

- **Contiguous**
- Non Contiguous
- Both Contiguous and Non Contiguous
- None of the given

123.

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For virus to propagate itself, it has to intercept interrupt__.

- 9H
- 11H
- **13H**
- 17H

124.

If virus wants to be in memory independently, it should have its own_.

- MCB
- PSP
- EB

➤ **Both MCB and PSP** **PG #334**

125.

Bit #__of Eflag is used for alignment check

- 12
- 14
- 15

18 **PG # 164**

126. First cluster in user data is numbered in a FAT based system.

- 0
- 1

2 **PG # 258**

3

127. -----BIOS services understand --.

LBA **PG # 212**

- LSN
- Cluster #
- None

128. The first cluster number of a file can be found in-----

- BPB
- DPB

FCB **PG # 265**

None

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129. The size of FS Info block is

- 64byte
- 128 byte
- 256 byte
- 512 byte PG # 300**

130. -----In NTFS first entries are reserved.

- 4
- 6
- 16 PG # 303**

131. ----- The of boot block constitutes of BPB.

- Code part
- Data part PG # 242**
- Both
- None

132. -----Extended BIOS function make use of----- address

- LBA PG # 212**
- CHS
- LSN
- None

133. LBA address can be used in place of the CHS address.

- True PG # 235**
- False

134. In FAT12, the maximum range of clusters is

- 0 ~ FEFH
- 1~ FEFH

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2 ~ FEFH PG # 266

3 ~ FEFH

135. NTFS volume can be accessed directly in DOS.

True

False PG # 310

136.

Each partition information chunk is 16 bytes long and the last two bytes at the end of the partition table data part is the partition table signature whose value should be _____ indicating that the code part contains valid executable code.

00AA

0055

050A

AA55 PG # 219

137.

Service 21H/52H service returns the address of DOS internal data structures in ES: BX _____ behind the address returned lies the far address of the first MCB in memory.

2-bytes

4-bytes PG # 322

6-bytes

8-bytes

138.

80386 can have _____ control registers.

2

5

3

4 PG # 331

139.

The partition table uses the extended __ service.

13H PG # 234

14H

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15H

16H

140. The entry point of execution in EXE File can be

Start of the first instruction

Start of the last instruction

Anywhere in the Program PG # 335

Can be in the middle of the program

141. Using the _entry and the FAT we can access the contents of file.

Reserved blocks

Root Directory PG # 269

Number of FAT copies

None of the given

142. Control information in files is maintained using

BPB

DPB

FCB PG # 256

FPB

143. What will happen if NTFS volume is accessed in DOS?

Convert it to FAT volume

Nothing will happen

Error of invalid media PG # 310

None of the given

144. LSN of FS Info block is available at

BPB

FAT

Root Directory

None of the given

145. DOS device drivers do not understand the _____ data structures.

FAT12

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FAT16

FAT32

NTFS PG # 310

146. ___ is a collection of contiguous blocks.

Cluster PG # 242

Sector

Byte

None of Given

147. ___ used to determine the amount of conventional memory interfaced with the processor in kilobytes.

INT 10 H

INT 11 H

INT 12 H PG # 162

INT 13 H

148.

Bit number ___ of coprocessor control word is the Interrupt Enable Flag.

7 PG #168

8

9

10

149. To distinguish 486 with Pentium CPUID Test is used.

True PG # 166

False

150. Practically ___ entries are there in FAT 32.

2^{26}

2^{28}

2^{30}

2^{32} PG # 265

151.

BPB stands for ___.

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BIOS parameter block PG # 243

- BIOS processing block
 - Base processing block
 - BIOS partition block
- 152.

The keyboard input character scan code is received at _____ port.

60H PG # 179

- 61H
- 62H
- 63H
- 0xFD

153. _____ is LED control byte.

0xED PG # 181

- 0xFF
- 0xEE

154. _____ means typematic rate will be sent in next byte.

0xF3 PG # 180

- 0xF4
- 0xF5
- 0xF6

155. Keyboard uses port _____ as status port.

64H PG # 177

- 66H
- 67H
- 69H

156.

The keyboard can perform _____ serial I/O.

- asynchronous

synchronous

- Multiple

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Single

157. Bit number 2 of port 64H Status register used for output buffer full.

True

False

158. Bit number__ can declares the parity error of port 64H Status register.

4

5

6

7

159. Bit number__ of port 64H Status register used for input buffer full.

0

1

2

3

160. Disadvantage of FAT32 is__.

Large disk size can be managed in FAT32

Cluster size is reduced

Internal fragmentation is reduced

Very large table PG # 299

161. Maximum possible entries in FAT12 are_____.

1024

2048

4096 PG # 264

65536

162. What will be the value of the word located at 1Fh in DPB when number of free clusters on drive is not known?

0000H

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1111H

FFFFH PG # 250

None of the given.

163. Jump code part contains ___ bytes in boot block.

3 PG # 302

5

8

11

164. Operating system name contains ___ bytes in boot block.

3

5

8 PG # 257

11

165. File can be ___ viewed as organization of data.

Physically

Logically PG # 256

Both logically and physically

None of the give

166. ___ is used to read a block against its LSN.

absread() PG # 247

abswrite()

lsread()

None of the given

167. File can be ___ viewed as collection of clusters or blocks.

Physically PG # 256

Logically

Both physically and logically

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None

168. When we talk about FAT based file system, in user data area first cluster number is.

0

1

2 PG # 258

None of the given

169. Cluster number can also be referred as block number.

True

False PG # 258

170. To access the block within cluster using BIOS services the cluster number should be converted into__.

CHS

LBA

LSN PG # 258

None of the given

171. What will be the value of DL register when we are accessing C drive using undocumented service 21H/32H?

0

1

2

3 PG # 249

176. The directory structure of DOS is like_.

➤ Array

Tree PG # 256

➤ Linked list

➤ None of the given

177. Control information about files is maintained using__.

➤ BPB

➤ DPB

FCB PG # 256

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- FPB
178. When LSN is equal to zero (0), it means __.
- First block of the disk
 - **First block of the logical drive PG # 240**
 - First block of hidden blocks
 - None of the given
179. In FAT32, lower ___ bits are used.
- 26
 - **28 PG # 292**
 - 30
 - 32
180. ___ is relative address with respect to the start of Logical Drive.
- LBA
 - **LSN PG #240**
 - CHS
 - None of the given
181. To access drive parameter block we use undocumented service __
- 09H/32H
 - 11H/32H
 - 17H/32H
 - **21H/32H PG # 249**
182. ___ is an absolute address relative to the start of physical drive.
- **LBA PG # 240**
 - LSN
 - CHS
 - None of the above
183. Boot block consists of __ bytes.
- 64
 - 128
 - 256

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□ **512 PG # 242**

184. The DMA requests to acquire buses through the ___ signal.

➤ **HOLD PG #186**

- ACR
- ACK
- None of Given

185. The keyboard device writes a code 0xFA on the port 60H to indicate that the _____.

➤ Input buffer is full

➤ **Byte has been received properly PG # 179**

- Output buffer is full
- None of the given

186. A single DMA can transfer ___ operands to and from memory in a single a bus cycle.

• **8-bits PG # 186**

- 16-bits
- 32-bits
- 12-bits

187. In FAT12, to calculate the address or offset from index, we need to multiply it with _____.

➤ 1/2

➤ **3/2 PG #267**

- 5/7
- 7/2

188. _____ Register can be used to show that the channel is single transfer, block transfer or demand transfer mode.

- DMA Command register
- DMA Request Register

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➤ DMA Mode Register

➤ **DMA controller Register PG #187-188**

189. When we mark a file as deleted by placing 0xE5 then the chain of clusters in FAT is also replaced by ____

➤ E5

➤ 1

➤ **0 PG # 79**

➤ N

190. Cluster size is reduced in ____.

➤ FAT12

➤ FAT16

➤ **FAT32**

➤ None of the given

191. In FAT32 _____ root directory entries are there.

➤ 128

➤ 256

➤ 512

➤ **None of the given**

192. If a file is having more than one cluster then it will be managed by

➤ FAT

➤ BPB

➤ DPB

➤ **None of the above**

193. Internal fragmentation is reduced in ____.

➤ FAT12

➤ **FAT16**

➤ FAT32

➤ None of the given

194. For supporting long file names, ____ fragments can be supported.

➤ 12

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➤ 20

➤ 26

➤ **32**

195. To store a cluster in FAT 32 is/are needed.

➤ Nibble

➤ Byte

➤ 2 Bytes

➤ **4 Bytes**

196. If a file size is 12K and the size of the cluster is 4K then ___ clusters are used for the file.

➤ 2

➤ **3**

➤ 4

➤ 5

197. We can access the contents of File by using the root directory entry and _____.

➤ Reserved Blocks

➤ Number of FAT copies

➤ **File Allocation Table (FAT) PG # 269**

➤ None of the given

198. FAT based file system can store file name in form.

➤ ASCII

➤ UNICODE

➤ **Both ASCII and UNICODE**

➤ None of the given

199. Drive parameter block is derived from ____.

➤ FCB

➤ FAT

➤ **BPB PG # 249**

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➤ CPB

200. We can access Blocks for FAT using__.

➤ BPB

➤ DPB

➤ **FCB**

➤ Both BPB and DPB

201. If we know the cluster number, we can access the blocks within the cluster using BIOS services directly.

➤ **True PG # 258**

➤ False

202. _____ is an internal data structure of DOS and resides in main memory.

➤ BPB

➤ DPB

➤ CPB

➤ **None of the given.**

203. The size of DPB data structure is _bytes.

➤ 16

➤ 32

➤ 64

➤ **128**

204. The size of FCB data structure is _bytes.

16

32

64

128

205. Advantages of FAT32 is/are__.

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- Large disk size can be managed in FAT32
 - **Cluster size is reduced**
 - Internal fragmentation is reduced
 - All of the given
206. file system keeps the backup of its boot block.
- FAT12
 - FAT16
 - **FAT32**
 - None of the given
207. To store a UNICODE character ___ is/are needed.
- Nibble
 - Byte
 - **2 Bytes**
 - 4 Bytes
208. ___ is the first block on disk.
- LSN =0
 - **LBA=0 PG # 240**
 - LBA=1
 - Both LBA=0 and LSN=0
209. If FAT entry is between FFF0H to FFF6H in FAT16 then_.
- Cluster is available
 - **It is a Reserved cluster PG # 272**
 - It is next file cluster
 - It is a last file cluster
210. File system used in CD's is __ file system
- **Contiguous**
 - Chained
 - Indexed
 - None

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249. A file has 2 clusters and the size of cluster is 4K. What will be the size of file?

➤ 2K

➤ **8K**

➤ 16K

➤ 32K

250. In NTFS, up to ___ characters are used to store file names,

➤ 30

➤ 48

➤ **255 PG # 283**

➤ 510

251. A cluster is a collection of contiguous ___.

➤ **Blocks PG # 242**

➤ Sectors

➤ Bytes

➤ None of Given

252. In BPB, root directory is saved in ___.

a. **Cluster#0**

b. Cluster#1

c. Cluster#2

d. Cluster#3

253.

254.

entries are _____.

a. **16-bytes PG # 303**

b. 20-bytes

c. 26-bytes

d. 32-bytes

In NTFS, total sizes of MFT

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255. In NTFS, ___ store the contents of file.

a. Both small & large file Record

b. Small record

c. Large Record

d. None of given

256.

In NTFS, contents and indexed of file is stored in ___.

a. Small record

b. Large Record

c. Both small & large file Record

d. None of given

257.

Total No. of bytes that can be stored in Keyboard Buffer is _____.

a. 16

b. 32 PG #54

c. 64

d. 128

258.

BIOS support ___ UARTS as COM ports.

a. 6

b. 4 PG #113

c. 3

d. 2

259.

DCE stands for _____.

a. Data communication equipment PG # 109

b. Distributed Computing Environment

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- c. Data Communications Equipment
- d. Data Carrier Equipment

260.

In counter register bit no. 3 changes its value between 0 and 1 with in__clock cycles

- a. 1
- b. 2
- c. 4

d. 16 PG #69

261. In each byte is needed to be encapsulated in start and end.

a. Synchronous communication

b. Asynchronous communication PG # 106

c. Both

d. None of given

262. The__service # is not used in any interrupt.

- a. 01
- b. 02
- c. 03

d. FF

263. If we want to send printing on the printer then we have to perform following steps.

- a. Initialize printer
- b. Read Status
- c. Check Error

d. All of the given

264. If printer is__then printer sends back the ACK signal to the printer interface

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a. idle PG # 97

- b. busy
- c. Out of paper
- d. None of the given

265. DSR stands for_____.

a. Data set ready PG # 111

- b. Data service ready
- c. Data stock ready
- d. None of the given

266.

At IRQ 7 Interrupt #_____is used.

- a. 0x0A
- b. 0x0B
- c. 0x0C

d. 0x0FPG # 95

267. The memory addresses of COM ports remain same for all computers

a. True

b. False

268. In keyboard status byte bit no. 2 and 3 are used for ctrl and alt keys respectively. which of the following condition is used to check that Ctrl + Alt keys are pressed. Where: unsigned char far * scr = (unsigned charfar*)(0x00400017);

a. if (((*scr)&12)==12)

b. if (((*scr)&8)==8)

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- c. `if (((*scr)&4)==4)`
- d. `if (((*scr)&2)==2)`

269. In case of synchronous communication a timing signal is required to identify the start and end of a bit.

a. True PG # 105

b. False

270. The baud rate is set in accordance with the divisor value loaded within the UART internal registers base +0 and base +1.

a. True PG # 114

b. False

271. ----- Software based flow control
make use of ----- control characters

a. Xon

b. XOFF

c. Both PG # 135

d. None

272. ___ is used to read time from RTC

a. 1A\02H PG # 137

b. 1A\03H

c. 1A\04H

d. 1A\05H

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273. Int___service 0 can be used to set the line parameter of the UART or COM port.

a. 14H PG # 119

b. 15H

c. 13H

d. None of the given option

274. When LBA is equal to zero (0), it means_____.

a. First block of the disk PG # 240

b. First block of the logical drive

c. First block of the hidden block

d. None of the given

275. How many bytes can be used to store a file name in NTFS?

a. 128

b. 255

c. 510

d. 1024

276. In boot block BIOS parameter block starts from 03H

a. 05H

b. 08H

c. 0BH PG # 302

277. IN NTFS, FAT and root directory is replaced by

a. FCB

b. MFT PG # 301

c. Hidden blocks

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d. Boot sector

278. Block # 2 is the safest block to store the backup of boot block.

a. True

b. False

279. The keyboards interface as discussed earlier uses the IRQ0 and the port 64H as data port.

a. True

b. False

280. FAT12 will have 12-bit wide entries and can have $2^{12}=4096$ entries maximum

a. True

b. False

