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# CS401 Quiz 2 Solved

1. In the context of video service, if we want to set the cursor at top left corner, which of the values will be stored in DH and DL respectively?

a) 00.80

b) 00.00 page 141

c) 25.80

d) 0.01

2. Which of the following INT 21 service is used to read character from standard input?

a) 00

b) 01 page 144

c) 02

d) 03

3. "INT13-BIOS disk service" generally uses which register to return the "error flag"?

a) CF page 148

b) DL

c) AH

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d) AL

4. Which of the following service of INT 10 is used to get the video font information?

a) 1129h

b) 1130h page 142

c) 1128h

d) 1127h

5. Which of the following service of INT 10 is used to write graphic pixel on the screen?

a) 0x0A

b) 0x0B

c) 0x0C page 144

d) 0x0D

6. On executing INT 0x21-service 0x3D, if file is successfully opened then

a) CF will contain 1

b) CF will contain 0

c) ZF will contain 1

d) ZF will contain 0

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7. On executing INT 0x21-service 0x3D, if file can't be opened then

a) CF will contain 1

b) CF will contain 0

c) ZF will contain 1

d) ZF will contain 0

8. Device drivers can be divided into____major categories

a) 5

b) 4

c) 3

d) 2

9. We can set the current file position in DOS using service number___

a) 0x38

b) 0x40

c) 0x42 page 154

d) 0x43

10. COM1 is accessible via ports ___while COM2 is accessible via __

a) 3FD, 3F9

b) 2F8-2FF, 3F8-3FF

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c) 3F9, 3FD

d) 3F8-3FF, 2F8-2FF page 164

11. In the context of vides services, if we want to write string then which of the value will be placed in AH?

a) 10h

b) 12h

c) 11h

d) 13h page 142

12. In the context of video service, if we want to scroll the window up which of the following will be value of AH?

a) AH = 05h

b) AH = 06h page 141

c) AH = 07h

d) AH = 08h

13. In the context of video services, if we want to set cursor position which of the following will be the value of AH?

a) AH = 01h

b) AH = 02h page 139

c) AH = 03h

d) AH = 04h

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14. Which standard format is used for sending data on the serial port?

a) Full duplex

b) BIOS INT 14

c) RS232 page 163

d) COM1

15. INT 0x13 service 0x08 is use to _____

a) Read disk sector

b) Write disk sector

c) Reset disk sector

d) Get drive parameter page 148

16. Parameters pushed to the routine in_order with the rightmost being pushed first using language

a) Reverse page 179

b) Proper

c) Forward

d) Same

17. Parameters pushed to the routine in_order with the left most being pushed first using Pascal language

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a) Proper page 179

b) Same

c) Reverse

d) Forward

18. _____ symbol is added to any function or variable using the C language naming convention

a) Underscore page 177

b) #

c) &

d) @

19. Which of the following BIOS INT provides serial port services

a) INT 21

b) INT 14 page 163

c) INT 10

d) INT 08

20. A 32-bit address register can access up to_____ of memory

a) 2 MB

b) 2 GB

c) 4 MB

d) 4 GB page 167

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21. BIOS video services are exported via interrupt

a. INT 10 page 139

b) INT 9

c) INT 8

d) INT 7

22. Which of the following is used to terminate a string in assembly language?

a) !

b) #

c) $

d) ;

23. The bits are sent one by one in specially formatted fashion on the__

a) Half duplex

b) Parallel port

c) Full duplex

d) Serial port page 163

24. In VESA defined modes___bits for every pixel are organized.

a) 8 color

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b) 16 color page 172

c) 32 color

d) 64 color

25. What is the abbreviation VESA_and VBE _

a) Video Electrical System Association, VGA BIOS Extensions

b) Video Electronics Standards Administration, Video Bus Extensions

c) Video Electronics Standard Association, Video BIOS Extensions page 172

d) VGA Electronics Standard Association, Video BIOS External

26. Which of the following services of INT 21 is used to write a string on standard output?

a) 00h

b) 02h

c) 09h page 144

d) 10h

27. In 9pin DB 9 connector, which pin is assigned to RD (Received Data)?

a) 1

b) 2 page 163

c) 3

d) 4

28. The maximum length of DOS command line parameters is

a) 64 bit

b) 127 bits

c) 256 bits

d) 512 bits

29. In C__is responsible for removing the parameters.

a) Clear

b) Callee

c) Caller page 179

d) Stack

30. While using INT 10 for writing graphic pixel on screen, which of the following registers hold the information about pixel color?

a) DH

b) DL

c) AH

d) AL page 144

31. As compared to_____,____provides more cooked services.

a) BIOS, DOS page 144

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b) DOS, OS

c) DOS, BIOS

d) OS, DOS

32. ____ Register is used for storing the base and limit of GDT.

a) LGDT

b) GDTR page 168

c) Null Descriptor

d) LDT

33. INT13-BIOS disk service" generally uses which register to return the "error code"?

a) CF

b) DL

c) AH page 148

d) AL

34. In case of COM File, first command line parameter is stored at _____offset of 'Program segment prefix'

a) 0x80

b) 0x82

c) 0x84

d) 0x86

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35. New devices are allowed to work with the existing operating system with the help of

_____.

a) Sockets

b) Port addresses

c) BIOS

d) Device drivers page 158

36. _____byte of DOS data buffer stores the maximum characters buffer can hold.

a) First page 144

b) Second

c) Third

d) Last

37. The register size of 386 architecture is ___

a) 16 bit

b) 32 bit page 167

c) 20 bit

d) 4 GB

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38. Com 1 is connected with

a) IRQ 2

b) IRQ 3

c) IRQ 4  page 106

d) IRQ 5

39. Which of the following services of INT 10 is used for writing the string?

a) 0x12

b) 0x13  page 142

c) 0x11

d) 0x10

40. The first entry of the GDT must always be zero, it is called the _____

a) Null Descriptor  page 168

b) Data Descriptor

c) Code Descriptor

d) Global Descriptor Table

41. The first sector on hard disk contains the

a) Hard disk

b) Partition table  page 150

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c) Data size

d) Sector size

42. BIOS video services are broadly classified into ____ _____categories

a) 1

b) 2 page 140

c) 3

d) 4

43. In case of COM file, maximum length of parameters passed through command line can be _____

a) 63 bytes

b) 127 bytes

c) 255 bytes

d) 511 bytes

44. In Pascal__is responsibility for removing the parameters

a) Stack

b) Clear

c) Caller

d)Callee page 179

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45. Hard disk MBR (Master Boot record) is of size

a) 446 bytes  page 150

b) 350 bytes

c) 512 bytes

d) 256 bytes

46. In 9pin DB 9 connector, which pin is assigned to Signal Ground

a) 3

b) 4

c) 5  page 163

d) 6

47. Two prevalent calling conventions are the_and _

a) C# calling convention, Java calling convention

b) C calling convention, Pascal Calling convention  page 179

c) C++ calling convention, Java calling convention

d) C++ calling Convention, Python calling Convention

48. Com2 is connected with

a) IRQ 2

b) IRQ 3  page 106

c) IRQ 4

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d) IRQ 5

49. BPB stands for

a) Basic Parameter Block

b) BIOS Precise Block

c) Basic Precise Block

d) Bios Parameter Block  page 159

50. While writing graphic pixel on the screen, which registers hold the value for setting cursor position?

a) AX, BX

b) AX, CX

c) BX, CX

d) CX, DX

51. The VESA VBE 2.0 standard include a ____mode which allows direct access to the whole video memory.

a) Parallel frame buffer

b) Liner frame buffer  page 172

c) Real

d) Protected

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52. In 9pin DB 9 connector, which pin is assignment to TD (Transmitted Data)?

a) 1

b) 2

c) 3

d) 4

53. INT 0x13 service 0x03 is used to ___

a) Read disk sector

b) Write disk sector page 148

c) Reset disk sector

d) Get drive parameter

54. Serial port services are provided by the __

a) BIOS INT 11

b) BIOS INT 14 page 163

c) BIOS INT 13

d) RS232

55. Which of the following register hold the page number for using the write string service of INT 10?

a) AH

b) BL

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c) CL

d) BH page 144

56. The "program segment prefix" for com file is of ____size

a) 64bytes

b) 128 bytes

c) 256 bytes

d) 512 bytes

57. Which of the following registers are used as DOS input buffer

a) DS, AX

b) SS, SP

c) DS, DX page 144

d) CS:BX

58. Which register is generally used to specify the service number of an interrupt

a) DX

b) AX page 100

c) BX

d) CX

59. The root directory of floppy contains_fixed entries

a) 64

b) 256

c) 128

d) 512 page 156

60. In FAT32 file system directory entry in DOS consist of how many bytes?

a) 16

b) 24

c) 32 page 147

d) 64

61. _____is the highest priority interrupt in interrupt controller a) IRQ 0 page 106

b) IRQ 1

c) IRQ 2

d) IRQ 3

62. Operating system organize data in form of

a) Folder

b) Batch file

c) File page 153

d) None of given

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63. The higher 16 bit of EAX register are labeled as

a) AX

b) EAH

c) AH

d) None of given




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