FINALTERM EXAMINATION
Spring 2012
CS609- System Programming

Question No: 1 (Marks: 1) - Please choose one

Bit # _____ of Eflag is used for alignment check

► 12
► 14
► 15
► **18** (page 164)

Question No: 2 (Marks: 1) - Please choose one

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

► **Physical** (page 202)
► Logical
► Both
► None

Question No: 3 (Marks: 1) - Please choose one

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

► 0
► 1
► **2** (page 258)
► 3

دنیا میں سب سے مشکل کام اپنی اصلاح اور سب سے آسان کام دوسروں پر نکتہ چینی کرنا ہے

Question No: 4   (Marks: 1) - Please choose one
BIOS services understand --------.

►**LBA**   **(page 212)**
►LSN
►Cluster #
►None

Question No: 5   (Marks: 1) - Please choose one
The first cluster number of a file can be found in---------

►BPB
►DPB
►**FCB(page 265)**
►None

Question No: 6   (Marks: 1) - Please choose one
The size of FS Info block is

►64byte
►128 byte
►256 byte
►**512 byte(page 300)**

Question No: 7   (Marks: 1) - Please choose one
In NTFS first -------- entries are reserved.

►4
►6
►**16**   **(page 303)**
►32

Question No: 8   (Marks: 1) - Please choose one
In memory map of first 1 MB of ram ,the first -------- is called conventional RAM.

►64kb
►384kb
►**640kb**   **(page 317)**
►None

بری صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

Question No: 9   (Marks: 1) - Please choose one
In memory map of first 1 MB of ram ,the higher -------- is called system memory.

►64kb
►**384kb   (page 317)**
►640kb
►None

Question No: 10   (Marks: 1) - Please choose one
The -------- of boot block constitutes of BPB.

►Code part
►**Data part   (page 242)**
►Both
►None

Question No: 11   (Marks: 1) - Please choose one
Extended BIOS function make use of --------- address

►**LBA   (Page 212)**
►CHS
►LSN
►None

Question No: 12   (Marks: 1) - Please choose one
LBA address can be used in place of the CHS address.
►**True   (Page 235)**
►**False**

Question No: 13   (Marks: 1) - Please choose one
In FAT12, the maximum range of clusters is ……...

►0 ~ FEFH
►1~ FEFH
►**2 ~ FEFH   (Page 266)**
►3 ~ FEFH

Question : 14 (Marks: 1) - Please choose one
NTFS volume can be accessed directly in DOS.

►True
►**False   (Page 310)**

Question No: 15   (Marks: 1) - Please choose one

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   (Page 219)**

Question No: 16   (Marks: 1) - Please choose one

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   (Page 322)**
►6-bytes
►8-bytes

Question No: 17   (Marks: 1) - Please choose one

80386 can have _____ control registers.

►2
►5
►3
►**4   (Page 331)**

Question No: 18   (Marks: 1) - Please choose one

The partition table uses the extended _____ service.
►**13H   (p234)**
►14H
►15H
►16H

Question No: 19   (Marks: 1) - Please choose one

The entry point of execution in EXE File can be

►Start of the first instruction
►Start of the last instruction
►**Anywhere in the Program   (Page 335)**
►Can be in the middle of the program

اللہ کا خوف سب سے بڑی دانائی ہے

4

Question : 20 (Marks: 1) - Please choose one
Using the_____ entry and the FAT we can access the contents of file.

►Reserved blocks
►**Root Directory   (Page 269)**
►Number of FAT copies
►None of the given

Question : 21 (Marks: 1) - Please choose one
Control information in files is maintained using
►BPB
►DPB
►**FCB   (Page 256)**
►FPB

Question : 22 (Marks: 1) - Please choose one
What will happen if NTFS volume is accessed in DOS?

►Convert it to FAT volume
►Nothing will happen
►**Error of invalid media   (Page 310)**
►None of the given

Question : 23 (Marks: 1) - Please choose one
LSN of FS Info block is available at

►BPB
►**FAT**
►Root Directory
►None of the given

Question : 24 (Marks: 1) - Please choose one
DOS device drivers do not understand the_____ data structures.

►FAT12
►FAT16
►FAT32
►**NTFS   (Page 310)**

Question : 25 (Marks: 1) - Please choose one
_____ is a collection of contagious blocks.
► **Cluster   (Page 242)**
► Sector
► Byte
► None of Given

Question No: 26   (Marks: 1) - Please choose one
_____ used to determine the amount of conventional memory interfaced with the processor in kilobytes.

► INT 10 H
► INT 11 H
► **INT 12 H   (Page 162)**
► INT 13 H

Question No: 27   (Marks: 1) - Please choose one
Bit number _____ of coprocessor control word is the Interrupt Enable Flag.
► **7   (Page 168)**
► 8
► 9
► 10

Question No: 28   (Marks: 1) - Please choose one
To distinguish 486 with Pentium CPUID Test is used.
► **True   (Page 166)**
► False

Question : 29 (Marks: 1) - Please choose one
Practically _____ entries are there in FAT 32.
► 2^{26}
► 2^{28}
► 2^{30}
► **2^{32} (Page 265)**

Question No: 30   (Marks: 1) - Please choose one
BPB stands for _____.

► **BIOS parameter block   (Page 243)**
► BIOS processing block
► Base processing block
► BIOS partition block

Question No: 31   (Marks: 1) - Please choose one
The keyboard input character scan code is received at ___ port.

► **60H   (Page 179)**
► 61H
► 62H
► 63H

Question No: 32   (Marks: 1) - Please choose one
_____ is LED control byte.

► 0xFD
► **0xED   (Page 181)**
► 0xFF
► 0xEE

Question : 33 (Marks: 1) - Please choose one
_____means typematic rate will be sent in next byte.

► **0xF3   (Page 180)**
► 0xF4
► 0xF5
► 0xF6

Question : 34 (Marks: 1) - Please choose one
Keyboard uses port ____ as status port.

► **64H (Page 177)**
► 66H
► 67H
► 69H

Question : 35 (Marks: 1) - Please choose one
The keyboard can perform _____ serial I/O.

► asynchronous
► **synchronous**
► Multiple
► Single

<div dir="rtl">ایماندار کو غصہ دیر سے آتا ہے اور جلدی دور ہو جاتا ہے</div>

Question : 36 (Marks: 1) - Please choose one
Bit number 2 of port 64H Status register used for output buffer full.

►True
►**False**

Question : 37 (Marks: 1) - Please choose one
Bit number _____ can declares the parity error of port 64H Status register.

►4
►5
►6
►**7**

Question : 38 (Marks: 1) - Please choose one
Bit number _____ of port 64H Status register used for input buffer full.

►**0**
►1
►2
►3

زندگی میں کامیابی کا یہی راز ہے کہ پریشانیوں سے پریشان مت بنو

8

FINALTERM EXAMINATION
Spring 2010
CS609- System Programming

Question No: 1   (Marks: 1) - Please choose one

Maximum possible entries in FAT12 are _____.

►1024
►2048
►**4096   (Page 264)**
►65536

Question No: 2   (Marks: 1) - Please choose one

Disadvantage of FAT32 is _____.

►Large disk size can be managed in FAT32
►Cluster size is reduced
►Internal fragmentation is reduced
►**Very large table   (Page 299)**

Question No: 3   (Marks: 1) - Please choose one

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

►0000H
►1111H
►**FFFFH   (Page 250)**
►None of the given.

Question No: 4   (Marks: 1) - Please choose one

Jump code part contains _____ bytes in boot block.

►**3 (Page 302)**
►5
►8
►11

دنیا کی سب سے بڑی فتح نفس پر قابو رکھنا ہے

Question : 5   (Marks: 1) - Please choose one
Operating system name contains _____ bytes in boot block.

►3
►5
►**8   (Page 257)**
►11

Question No: 6   (Marks: 1) - Please choose one
File can be _____ viewed as organization of data.

►Physically
►**Logically   (Page 256)**
►Both logically and physically
►None of the give

Question No: 7   (Marks: 1) - Please choose one
_____ is used to read a block against its LSN.

►**absread()   (Page 247)**
►abswrite()
►lsnread()
►None of the given

Question : 8   (Marks: 1) - Please choose one
File can be_____ viewed as collection of clusters or blocks.

►**Physically   (Page 256)**
►Logically
►Both physically and logically
►None

Question No: 9   (Marks: 1) - Please choose one
When we talk about FAT based file system, in user data area first cluster number is _____.

►0
►1
►**2   (Page 258)**
►None of the given

جھوٹ انسان اور ایمان دونوں کا دشمن ہے

Question No: 10   (Marks: 1) - Please choose one
Cluster number can also be referred as block number.
►True
►**False   (Page 258)**

Question : 11 (Marks: 1) - Please choose one
To access the block within cluster using BIOS services the cluster number should be converted into _____.

►CHS
►LBA
►**LSN   (Page 258)**
►None of the given

Question : 12 (Marks: 1) - Please choose one
What will be the value of DL register when we are accessing C drive using undocumented service 21H/32H?

►0
►1
►2
►**3   (Page 249)**

Question No: 13   (Marks: 1) - Please choose one
The directory structure of DOS is like _____.

►Array
►**Tree   (Page 256)**
►Linked list
►None of the given

Question No: 14   (Marks: 1) - Please choose one
Control information about files is maintained using _____.
►BPB
►DPB
►**FCB   (Page 256)**
►FPB

Question No: 15   (Marks: 1) - Please choose one
When LSN is equal to zero (0), it means _____.

► First block of the disk
► **First block of the logical drive   (Page 240)**
►First block of hidden blocks
► None of the given

Question No: 16 (Marks: 1) - Please choose one
In FAT32, lower _____ bits are used.
► 26
► **28** **(Page 292)**
►30
►32

Question No: 17 (Marks: 1) - Please choose one
_____ is relative address with respect to the start of Logical Drive.
►LBA
►**LSN** **(Page 240)**
►CHS
►None of the given

Question No: 18 (Marks: 1) - Please choose one
The practical limit of blocks per cluster is _____.

►32 blocks per cluster
►**64 blocks per cluster** **(Page 242)**
►128 blocks per cluster
►256 blocks per cluster

Question No: 19 (Marks: 1) - Please choose one
In dos we have limit of _____ .
►**128 blocks per cluster** **(Page 242)**
►256 blocks per cluster
►32 blocks per cluster
►64 blocks per cluster

Question No: 20 (Marks: 1) - Please choose one
Highest capacity physical capacity of the disk according to the IDE interface is _____.
►**127 GB** **(Page 212)**
►100 GB
►80 GB
►300 GB

Question No: 21 (Marks: 1) - Please choose one
Partition Table can be read using the extended _____ Services.

►**13 H** **(Page 234)**
►14 H
►15 H
►None of given

Question No: 22   (Marks: 1) - Please choose one
In Protected Mode, the segment registers are used as _____

► Descriptor
► **Selector   (Page 326)**
► All of the given choices
► None of the given choices

Question No: 23   (Marks: 1) - Please choose one
To access drive parameter block we use undocumented service _____

► 09H/32H
► 11H/32H
► 17H/32H
► **21H/32H   (Page 249)**

Question No: 24   (Marks: 1) - Please choose one
_____ is an absolute address relative to the start of physical drive.

► **LBA   (Page 240)**
► LSN
► CHS
► None of the above

Question No: 25   (Marks: 1) - Please choose one
Boot block consists of _____ bytes.

► 64
► 128
► 256
► **512   (Page 242)**

Question No: 26   (Marks: 1) - Please choose one
The DMA requests to acquire buses through the _____ signal.

► **HOLD   (Page 186)**
► ACR
► ACK
► None of Given

عقل مند کہتا ہے میں کچھ نہیں جانتا جبکہ بے وقوف کہتا ہے کہ میں سب کچھ جانتا ہوں

Question No: 27 (Marks: 1) - Please choose one

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

►Input buffer is full
►**Byte has been received properly** **(Page 179)**
►Output buffer is full
►None of the given

Question No: 28 (Marks: 1) - Please choose one

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

►**8-bits** **(Page 186)**
►16-bits
►32-bits
►12-bits

Question No: 29 (Marks: 1) - Please choose one

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

►1/2
►**3/2** **(Page 267)**
►5/7
►7/2

Question No: 30 (Marks: 1) - Please choose one

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

►DMA Command register
►DMA Request Register
►DMA Mode Register
►**DMA controller Register** **(Page 187-188)**

<div dir="rtl">خود کو تمہیں سے بڑھ کر کوئی اچھا مشورہ نہیں دے سکتا</div>

CS609 – Solved Quizzes (Quiz No.3 & 4)

Question : 1 of 10   (Marks: 1) - Please choose one
When we mark a file as deleted by placing 0xE5 then the chain of clusters in FAT is also replaced by _____.

►E5
►1
►**0   (Page 79)**
►N

Question : 2 of 10   (Marks: 1) - Please choose one
Cluster size is reduced in _____.

►FAT12
►FAT16
►**FAT32**   Click here for detail
►None of the given

Question : 3 of 10   (Marks: 1) - Please choose one
In FAT32 _____ root directory entries are there.

►128
►256
►512
►**None of the given**   Click here for detail

Question : 4 of 10   (Marks: 1) - Please choose one
If a file is having more than one cluster then it will be managed by _____.

►FAT
►BPB
►DPB
►**None of the above**

Question : 5 of 10   (Marks: 1) - Please choose one
Internal fragmentation is reduced in _____.

►FAT12
►FAT16   Click here for detail
►FAT32
►None of the given

Question : 6 of 10   (Marks: 1) - Please choose one

For supporting long file names, _____ fragments can be supported.

►12
►20
►26
►32

Question : 7 of 10   (Marks: 1) - Please choose one

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

►Nibble
►Byte
►2 Bytes
►4 Bytes   **Click here for detail**

Question : 8 of 10   (Marks: 1) - Please choose one

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

Question : 9 of 10   (Marks: 1) - Please choose one

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

►Reserved Blocks
►Number of FAT copies
►File Allocation Table (FAT)   (Page 269)
►None of the given

Question : 10 of 10   (Marks: 1) - Please choose one

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

►ASCII
►UNICODE
►Both ASCII and UNICODE
►None of the given

<div dir="rtl">

جو شخص ناکامیوں سے ڈر کر بھاگتا ہے کامیابی اُس سے ڈر کر بھاگتی ہے

</div>

Muhammad Moaaz Siddiq – MCS(4th)
Moaaz.pk@gmail.com
Campus:- Institute of E-Learning & Moderen Studies
(IEMS) Samundari

Question : 1 of 10   (Marks: 1) - Please choose one
Drive parameter block is derived from _____.

►FCB
►FAT
►**BPB   (Page 249)**
►CPB

Question : 2 of 10   (Marks: 1) - Please choose one
We can access Blocks for FAT using _____.
►BPB
►DPB
►**FCB**
►Both BPB and DPB

Question : 3 of 10   (Marks: 1) - Please choose one
If we know the cluster number, we can access the blocks within the cluster using BIOS services directly.

►**True   (Page 258)**
►False

Question : 4 of 10   (Marks: 1) - Please choose one
_____ is an internal data structure of DOS and resides in main memory.

►BPB
►DPB
►CPB
►None of the given.   Click here for detail

Question : 5 of 10   (Marks: 1) - Please choose one
The size of DPB data structure is _____ bytes.
►16
►32
►64
►**128** click here for detail

Question : 6 of 10   (Marks: 1) - Please choose one
The size of FCB data structure is _____ bytes.
►**16**   Click here for detail
►32
►64
►128

Question : 7of 10   (Marks: 1) - Please choose one
Advantages of FAT32 is/are _____.

►Large disk size can be managed in FAT32
►**Cluster size is reduced**   Click here for detail
►Internal fragmentation is reduced
►All of the given

Question : 8 of 10   (Marks: 1) - Please choose one
_____ file system keeps the backup of its boot block.

►FAT12
►FAT16
►**FAT32   Click here for detail**
►None of the given

Question : 9 of 10   (Marks: 1) - Please choose one
To store a UNICODE character _____ is/are needed.

►Nibble
►Byte
►**2 Bytes   Click here for detail**
►4 Bytes

Question : 10 of 10   (Marks: 1) - Please choose one
_____ is the first block on disk.

►LSN =0
►**LBA=0   (Page 240)**
►LBA=1
►Both LBA=0 and LSN=0

Question : 1 of 10   (Marks: 1) - Please choose one
If FAT entry is between FFF0H to FFF6H in FAT16 then _____.

►Cluster is available
►**It is a Reserved cluster   (Page 272)**
►It is next file cluster
►It is a last file cluster

جو لوگوں کے سامنے فخر کرتا ہے وہ لوگوں کی نظروں سے گر جاتا ہے

Question : 2 of 10   (Marks: 1) - Please choose one
File system used in CD's is_____ file system

►**Contiguous**   **Click here for detail**
►Chained
►Indexed
►None

Question : 3 of 10   (Marks: 1) - Please choose one
A file has 2 clusters and the size of cluster is 4K. What will be the size of file?

►2K
►**8K**
►16K
►32K

Question : 4 of 10   (Marks: 1) - Please choose one
In NTFS, Backup of boot block is stored at block # _____.

►2
►6
►**8**
►10

Question : 5 of 10   (Marks: 1) - Please choose one
The interval timer can operate in _____ modes.

►Five
►Seven
►Four
►**Six   (Page 72)**

Question : 6 of 10   (Marks: 1) - Please choose one
File control block (FCB) is _____ byte long.

►**32** Click here for detail
►64
►16
►128

عقل مند اپنے عیب خود دیکھتا ہے اور بیوقوفوں کے عیب دنیا دیکھتی ہے

Question : 7 of 10   (Marks: 1) - Please choose one
On the execution of IRET instruction, number of bytes popped from stack is

► 4 bytes
► 6 bytes
► **8 bytes   <u>Click here for detail</u>**
► 10 bytes

Question : 8 of 10   (Marks: 1) - Please choose one
If CPUID instruction is not present then the processor can be a

► **486 processor   (Page 166)**
► 386 processor
► 286 processor
► All of the above

Question : 9 of 10   (Marks: 1) - Please choose one
Extended memory is available if the processor is of the type _____

► **AT   (Page 171)**
► XT
► All of the given choices
► None of them

Question : 10 of 10   (Marks: 1) - Please choose one
The built in mechanism within the UART for error detection is_____

► hamming code
► **parity   (Page 107)**
► CRC16 (cyclic redundancy check 16 bit)
► CRC32 (cyclic redundancy check 32 bit)

Question : 1 of 10   (Marks: 1) - Please choose one
If three Programmable interrupt controllers are cascaded then how many interrupt driven hardware IO devices can be attached _____

► 12
► 18
► 23
► **24   (Page 48)**

بد صورت چہرہ بد صورت دماغ سے بہتر ہے

Question : 2 of 10   (Marks: 1) - Please choose one
Int 14H_____ can be used to send a byte

►Service#0
►**Service#1   (Page 121)**
►Service#2
►None of the given option.

Question : 3 of 10   (Marks: 1) - Please choose one
Int 14H _____ can be used to set the line parameter of the UART or COM port.

►**Service # 0   (Page 119)**
► Service # 1
►Service # 2
►None of the given options

Question : 4 of 10   (Marks: 1) - Please choose one
Int 14H _____ can be used to receive a byte.

►Service # 0
►Service # 1
► **Service # 2   (Page 121)**
►None of the given options

Question : 5 of 10   (Marks: 1) - Please choose one
The _____ function simply enables the self test facility within the modem control register

►STOn()
►SelfTest()
►**SelfTestOn()   (Page 127)**
►None of these

Question : 6 of 10   (Marks: 1) - Please choose one
_____ is a device incorporated into the PC to update time even if the computer is off.

►Clock counter
►ROM
►Clock
►**Real time clock   (Page 136)**

عقل مند آدمی اس وقت تک نہیں بولتا جب تک خاموشی نہیں ہو جاتی

21

Question : 7 of 10   (Marks: 1) - Please choose one

Interrupt _____ is used to get or set the time.

►0AH
►**1AH   (Page 136)**
►2AH
►3AH

Question : 8 of 10   (Marks: 1) - Please choose one

_____ is used to set time.
►1A/02H
►**1A/03H   (Page 138)**
►1A/04H
►1A/05H

Question : 9 of 10   (Marks: 1) - Please choose one

------------ is used to read date from RTC
►1A\02H
►1A\03H
►**1A\04H   (Page 138)**
►1A\05H

Question : 10 of 10   (Marks: 1) - Please choose one

____whenever received indicates the start of communication and _____ whenever received indicates a temporary pause in the communication.

►**XON & XOFF   (Page 135)**
►XOFF & XON
►XON & YOFF
►YON & XOFF

Question : 1 of 10   (Marks: 1) - Please choose one

The_____ function uses the COM port number to receive a byte from the COM port using BIOS services.
►recievebyte()
►initialize ()
►receive()
►**recievechar()   (Page 125)**

Question : 2 of 10   (Marks: 1) - Please choose one

In self test mode the output of the UART is routed to its input.

►**True   (Page 117)**
►False

22

Question : 3 of 10   (Marks: 1) - Please choose one
Only _____ ports are important from programming point of view.

► 70 and 71H (Page 141)
►71 and 72H
►70 and 72H
►72 and 73H

Question : 4 of 10   (Marks: 1) - Please choose one
The BIOS interrupt 0x1AH can be used to configure real time clock

►True   (Page 136)
►False

Question : 5 of 10   (Marks: 1) - Please choose one
DOS command _____ which gives the status of the memory and also points out which memory area occupied by which process.

►mem/d   (Page 13)
►mem/e
►mem/m
►None of the given

Question : 6 of 10   (Marks: 1) - Please choose one
Each entry in the IVT is _____ in size.

►4-bytes   (Page 12)
►6-bytes
►8-bytes
►2-bytes

Question : 7 of 10   (Marks: 1) - Please choose one
The tail value of the keyboard buffer should be examined to get to the _____ of the buffer.

►Start   (Page 56)
►End
►Middle
►None of given)

Question : 8 of 10   (Marks: 1) - Please choose one
Usually interrupt procedures are reentrant procedures especially those interrupt procedure compiled using C language compiler are reentrant.

23

►**True   (Page 38)**
►False

Question : 9 of 10   (Marks: 1) - Please choose one
_____ is Disk interrupt.

►10H
►11H
►**13H   (Page 42)**
►14H

Question : 10 of 10   (Marks: 1) - Please choose one
In parallel communication, the maximum numbers of bits we can send between two computers are _____.

►2-bits
►4-bits
►6-bits
►**8-bits**

Question : 1 of 10   (Marks: 1) - Please choose one
14h include _____ which is used to send a byte.

►Service #0
►**Service #1   (Page 121)**
►Service #2
►Service #3

Question : 2 of 10   (Marks: 1) - Please choose one
The status register _____ is the main control register.

►**B   (Page 146)**
►A
►C
►D

Question : 3 of 10   (Marks: 1) - Please choose one
_____ is used to identify the cause of interrupt.

►**Interrupt ID Register   (Page 116)**
►PC Register
►AC Register
►None of All These

Question : 4 of 10 (Marks: 1) - Please choose one
In NTFS, up to _____ characters are used to store files names,

►30
►48
►**255   (Page 283)**
►510

Question : 5 of 10 (Marks: 1) - Please choose one
A cluster is a collection of contiguous _____.

►**Blocks   (Page 242)**
►Sectors
►Bytes
►None of Given

Question : 6 of 10 (Marks: 1) - Please choose one
In BPB, root directory is saved in _____.

►**Cluster#0**
►Cluster#1
►Cluster#2
►Cluster#3

Question : 7 of 10 (Marks: 1) - Please choose one
In NTFS, total sizes of MFT entries are _____.

►**16-bytes   (Page 303)**
►20-bytes
►26-bytes
►32-bytes

Question : 8 of 10 (Marks: 1) - Please choose one
In NTFS, _____ store the contents of file.

►**Both small & large file Record**
►Small record
►Large Record
►None of given

انسان دکھ نہیں دیتے بلکہ انسانوں سے وابستہ امیدیں دکھ دیتی ہیں

25

Question : 9 of 10 (Marks: 1) - Please choose one

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

►Small record
►Large Record
►Both small & large file Record
►**None of given**

Question : 10 of 10 (Marks: 1) - Please choose one

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

►16
►**32   (Page 54)**
►64
►128

Question : 1 of 10 (Marks: 1) - Please choose one

BIOS support _____UARTS as COM ports.
►6
►**4   (Page 113)**
►3
►2

Question : 2 of 10 (Marks: 1) - Please choose one

DCE stands for _____.

►**Data communication equipment   (Page 109)**
►Distributed Computing Environment
►Data Communications Equipment
►Data Carrier Equipment

Question : 3 of 10 (Marks: 1) - Please choose one

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

►1
►2
►4
►**16   (Page 69)**

<div dir="rtl">بہترین تجربہ وہ ہے جس سے نصیحت حاصل ہو</div>

Question : 4 of 10 (Marks: 1) - Please choose one

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

►Synchronous communication
►**Asynchronous communication**   **(Page 106)**
►Both
►None of given

Question : 5 of 10 (Marks: 1) - Please choose one

The _____ service # is not used in any interrupt.

►01
►02
►03
►**FF**

Question : 6 of 10 (Marks: 1) - Please choose one

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

►Initialize printer
►Read Status
►Check Error
►**All of the given**

Question : 7 of 10 (Marks: 1) - Please choose one

DTE is _____.

►**Data terminal equipment**   **(Page 109)**
►Data transmitting equipment
►Dual terminal equipment
►None of the given.

Question : 8 of 10 (Marks: 1) - Please choose one

If printer is _____ then printer sends back the ACK signal to the printer interface

►**idle**   **(Page 97)**
►busy
►Out of paper
►None of the given

خوبصورتی علم و ادب سے ہوتی ہے لباس و حسن سے نہیں

Question : 9 of 10   (Marks: 1) - Please choose one
DSR stands for _____ .

►**Data set ready   (Page 111)**
►Data service ready
►Data stock ready
►None of the given

Question : 10 of 10   (Marks: 1) - Please choose one
At IRQ 7 Interrupt # ___ is used.

► 0x0A
►0x0B
► 0x0C
►**0x0F   (Page 95)**

Question : 1 of 10   (Marks: 1) - Please choose one
The memory addresses of COM ports remain same for all computers
►True
►**False**

Question : 2 of 10   (Marks: 1) - Please choose one
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 char far *)(0x00400017);

►**if (((*scr)&12)==12)**
►if (((*scr)&8)==8)
►if (((*scr)&4)==4)
►if (((*scr)&2)==2)

Question : 3 of 10   (Marks: 1) - Please choose one
In case of synchronous communication a timing signal is required to identify the start and end of a bit.

►**True   (Page 105)**
►False

Question : 4 of 10   (Marks: 1) - Please choose one
The baud rate is set in accordance with the divisor value loaded within the UART internal registers base +0 and base +1.

►**TRUE   (Page 114)**
►FALSE

28

Question : 5 of 10   (Marks: 1) - Please choose one

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

►Xon
►XOFF
►**Both   (Page 135)**
►None

Question : 6 of 10   (Marks: 1) - Please choose one

------------ is used to read time from RTC

►**1A\02H   (Page 137)**
►1A\03H
►1A\04H
►1A\05H

Question : 7 of 10   (Marks: 1) - Please choose one

Int_____ service 0 can be used to set the line parameter of the UART or COM port.

►**14H   (Page 119)**
►15H
►13H
►None of the given option

Question : 8 of 10   (Marks: 1) - Please choose one

 When LBA is equal to zero (0), it means _____.

►**First block of the disk   (Page 240)**
►First block of the logical drive
►First block of the hidden block
►None of the given

Question : 9 of 10   (Marks: 1) - Please choose one

In IRQ2 and IRQ3 which one has the highest priority?

►Can't be determined
►Both have same priority
►IRQ3
►**IRQ2   (Page 47)**

تم اچھا کرو زمانہ تم کو برا سمجھے یہ اس سے بہتر ہے کہ تم برا کرو اور زمانہ تم کو اچھا سمجھے

29

Question : 10 of 10 (Marks: 1) - Please choose one
Following is not a method of I/O

►Programmed I/O
► Interrupt driven I/O
►**Hardware Based I/O   (Page 4)**
►None of given

Question : 1 of 10 (Marks: 1) - Please choose one
It is possible to perform I/O operations from three different methods.

►**True (Page 7)**
►False

Question : 2 of 10 (Marks: 1) - Please choose one
The Function of I/O controller is to provide _____.

►I/O control signals
►Buffering
►Error Correction and Detection
►**All of given   (Page 5)**

Question : 3 of 10 (Marks: 1) - Please choose one
Which of the following are types of ISR _____.

►BIOS (Basic I/O service) ISR
►DOS ISR
►ISR provided by third party device drivers
►**All of the given   (Page 13)**

Question : 4 of 10 (Marks: 1) - Please choose one
Interrupt service number is usually placed in _____ register.

►CH
►CL
►**AH (Page 26)**
►AL

انسان کے لئے بری صحبت سے بڑھ کر بری کوئی چیز نہیں

Question : 5 of 10   (Marks: 1) - Please choose one
NMI Stand for

►**Non Maskable Interrupt (Page 46)**
►Non Multitude Interrupt
►Non Maskable Instruction
►None of Given

Question : 6 of 10   (Marks: 1) - Please choose one
A single interrupt controller can arbitrate among _____ different devices.
►4
► 6
►**8   (Page 47)**
►10

Question : 7 of 10   (Marks: 1) - Please choose one
The microprocessor package has many signals for data. Below are some incorrect priority order (Higher to Lower).

►**Reset,Hold,NMI,INTR   (Page 46)**
►NMI, INTR,Hold,Reset
►INTR,NMI,Reset,Hold
►None of the Given

Question : 8 of 10   (Marks: 1) - Please choose one
The following command "outportb (0x61,inportb(0x61) & 0xFC);" will

►Turn on the speaker
►**Turn off the speaker   (Page 75)**
►Toggle the speaker
►None of the given

Question : 9 of 10   (Marks: 1) - Please choose one
The following command "outportb (0x61,inportb(0x61) | 3);" will _____ .
►**Turn on the speaker   (Page 74)**
►Turn off the speaker
►Toggle the speaker
►None of the above

Question : 10 of 10   (Marks: 1) - Please choose one
The PPI acts as an interface between the CPU and a parallel _____ .

►**I/O device   (Page 83)**
►CPU
►BUS
►None of Given

Question : 1 of 10   (Marks: 1) - Please choose one
BIOS DO NOT support _____.

►LPT1
►LPT2
►LPT3
►**LPT4   (Page 91)**

Question : 2 of 10   (Marks: 1) - Please choose one
_____ bit is cleared to indicate the low nibble is being sent.

►D1
►D2
►D3
►**D4   (Page 104)**

Question : 3 of 10   (Marks: 1) - Please choose one
The bit _____ of Line control register in UART, if cleared will indicate that DLL is the data register.

►1
►3
►5
►**7   (Page 114)**

Question : 4 of 10   (Marks: 1) - Please choose one
_____ file system is used in NTFS based systems.

Contiguous Chained
Indexed
None of the given

<div dir="rtl">خاموشی غصے کا بہترین علاج ہے</div>

Question : 5 of 10   (Marks: 1) - Please choose one
Communication between keyboard and keyboard controller is _____.

►Asynchronous serial
►**Synchronous serial   (P 77)**
►Parallel communication
►None of the given

Question : 6 of 10   (Marks: 1) - Please choose one
In NTFS, boot sector is stored at

►First and 6th sector
►First and Last sector
►Only at Last sector
►**Only at First sector**

Question : 7 of 10   (Marks: 1) - Please choose one
Standard PC operates in two modes in terms of memory which are

►Real mode and Extended Mode
►Base mode and Memory Mode
►None of the given
►**Real mode and protected mode   (Page 6)**

Question : 8 of 10   (Marks: 1) - Please choose one
IVT is a table containing _____ byte entries each of which is a far address of an interrupt service routine.

►2
►**4   (Page 20)**
►8
►16

Question : 9 of 10   (Marks: 1) - Please choose one
Each paragraph in keep function is ____ bytes in size.

►4
►8
►**16   (Page 24)**
►32

جھوٹ رزق کو کھا جاتا ہے

Question : 10 of 10   (Marks: 1) - Please choose one

A software interrupt does not require EOI (End of interrupt).

►**True (Page 49)**
►False

Question : 1 of 10   (Marks: 1) - Please choose one

To store each character in keyboard buffer _____ bytes are required.

►**2 (Page 54)**
►4
►6
►8

Question : 2 of 10   (Marks: 1) - Please choose one

Interrupt _____ is empty; we can use its vector as a flag.

►9H
►13H
►15H
►**65H (Page 65)**

Question : 3 of 10   (Marks: 1) - Please choose one

Command register is an _____ bit register

►4
►**8   (Page 71)**
►16
►32

Question : 4 of 10   (Marks: 1) - Please choose one

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

►128
►**255**
►510
►1024

Question : 5 of 10   (Marks: 1) - Please choose one

_____ is the first logical sector of NTFS partition.

►DPB
►MFT
►**Boot sector**
►None

Question : 6 of 10 (Marks: 1) - Please choose one
In boot block BIOS parameter block starts from 03H

►05H
►08H
►**0BH** **(Page 302)**

Question : 7 of 10 (Marks: 1) - Please choose one
IN NTFS, FAT and root directory is replaced by
►FCB
►**MFT** **(Page 301)**
►Hidden blocks
►Boot sector

Question : 8 of 10 (Marks: 1) - Please choose one
Block # 2 is the safest block to store the backup of boot block.

►True
►**False**

Question : 2 of 10 (Marks: 1) - Please choose one
The keyboards interface as discussed earlier uses the IRQ0 and the port 64H as data port.

►True
► **False**

Question : 3 of 10 (Marks: 1) - Please choose one
FAT12 will have 12-bit wide entries and can have 2^12=4096 entries maximum

►**True**
► False

Question : 4 of 10 (Marks: 1) - Please choose one
In order to produce the sound from PC internal Speaker we have to load the___bit divisor value at the ___port.

►8, 0x21
►**16, 0x42**
►32, 0x22
►64, 0x32

افضل انسان وہ ہے جو اپنی اصلاح کی کوشش کرتا ہے

Some More MCQs and Quizzes

Question : 1 of 10   (Marks: 1) - Please choose one
DMA stands for_____

►**Direct Memory Access   (Page 4)**
►Distinct Memory Access
►Direct Module Access
►Direct Memory Allocation

Question : 2 of 10   (Marks: 1) - Please choose one
UART stands for_____

►**Universal Asynchronous Receiver Transmitter   (Page 107)**
►Universal Adjustment and Realigning Tool
►Unconventional Assisted Recovery Team
►None of these

Question : 3 of 10   (Marks: 1) - Please choose one
Interrupt Vector Table (IVT) in short is a _____ bytes sized table.

►**1024   (Page 10)**
►2048
►3072
►4096

Question : 4 of 10   (Marks: 1) - Please choose one
Hardware Interrupts are _____.

►Preemptive
►**Non-Preemptive   (Page 48)**
►Both Preemptive and Non-Preemptive
►None of Given

Question : 5 of 10   (Marks: 1) - Please choose one
Timer interrupt is a _____.

►**Hardware Interrupt   (Page 28)**
►Software Interrupt
►Both of these
►None of These

Muhammad Moaaz Siddiq – MCS(4th)
Moaaz.pk@gmail.com
Campus:- Institute of E-Learning & Moderen Studies
(IEMS) Samundari

Question : 6 of 10   (Marks: 1) - Please choose one
The keyboard makes use of interrupt number _____ for its input operations.
►**9   (Page 34)**
►10
►11
►12

Question : 7 of 10   (Marks: 1) - Please choose one
Register can be used to divide frequency is _____

►**Counter Register   (Page 69)**
►Accumulator Register
►None of these

Question : 8 of 10   (Marks: 1) - Please choose one
Which port is known as Data Port_____
►**60H   (Page 177)**
►61H
►64H
►69H

Question : 9 of 10   (Marks: 1) - Please choose one
LPTs can be swapped.
►**True   (Page 92)**
►False

Question : 10 of 10   (Marks: 1) - Please choose one
PPI is used to perform parallel communication
►**True   (Page 81)**
►False

Question : 1 of 10   (Marks: 1) - Please choose one
_____is used to control the printer via the BIOS

►Int 16H
►**Int 17H   (Page 84)**
►Int 18H
►Int 19H

اطمینان قلب چاہتے ہو تو حسد سے دور رہو

Question : 2 of 10   (Marks: 1) - Please choose one
There are two main types of interrupts namely _____.

► PC based and Window based
► Hardware based and Kernal based
► **Hardware interrupts and Software interrupts   (Page 10)**
► None of the given

Question : 3 of 10   (Marks: 1) - Please choose one
To set the interrupt vector means is to change the double word sized interrupt vector within the IVT.

► **True   (Page 22)**
► False

Question : 4 of 10   (Marks: 1) - Please choose one
The service number is usually placed in the _____ register.
► AL
► CL
► **AH (Page 26)**
► AX

Question : 5 of 10   (Marks: 1) - Please choose one
The keyboard makes use of interrupt number _____ for its input operations.
► **9   (Page 34)**
► 10
► 11
► 12

Question : 6 of 10   (Marks: 1) - Please choose one
The service _____ is called the keyboard hook service.

► 15H/2FH
► **15H/4FH   (Page 44)**
► 15H/FFH

Question : 7 of 10   (Marks: 1) - Please choose one
The BIOS interrupt _____ can be used to configure RTC.

► **1AH   (Page 136)**
► 2AH
► 3AH
► 4AH

Question : 8 of 10   (Marks: 1) - Please choose one
PPI stands for
►Parallel Programmable interface
►**Peripheral Programmable interface   (Page 76)**
►Port Programmable interface
►None of the given

Question : 9 of 10   (Marks: 1) - Please choose one
Int _____ is used to control the printer via the BIOS.
►**17H   (Page 84)**
►18H
►20H
►21H

Question : 10 of 10   (Marks: 1) - Please choose one
Counter register can be used to divide clock signal.
►**True   (Page 69)**
►False

Question : 1 of 10   (Marks: 1) - Please choose one
The bit number _____ of the coprocessor control word is the interrupt enable flag.

►**7   (Page 168)**
►8
►9
►6

Question : 2 of 10   (Marks: 1) - Please choose one
There are _____ kinds of serial communication.

►**2   (Page 105)**
►3
►4
►5

Question : 3 of 10   (Marks: 1) - Please choose one
_____ store the base address for LPT1.

►40:00H
►40:02H
►**40:08H   (Page 92)**
►40:1AH

Question : 4 of 10   (Marks: 1) - Please choose one

The amount of memory above conventional memory (extended memory) can be determined using the service _____.

►**15H/88H**   **(Page 162)**
►16H/88H
►17H/88H
►21H/88H

Question : 5 of 10   (Marks: 1) - Please choose one

The output on the monitor is controlled by a controller called _____within the PC.

►**Video controller**   **(Page 30)**
►Bus controller
►Ram controller
►None of the given

Question : 6 of 10   (Marks: 1) - Please choose one

Interrupt 9 usually reads the _____ from keyboard.

►ASCII code
►**Scan code**   **(Page 34)**
►Both ASCII and Scan code
►None of the above

Question : 7 of 10   (Marks: 1) - Please choose one

NMI Stand for

►**Non Maskable Interrupt**   **(Page 46)**
►Non Multitude Interrupt
►Non Maskable Instruction
►None of Given

Question : 8 of 10   (Marks: 1) - Please choose one

A single interrupt controller can arbitrate among ____ different devices.

►4
►6
►**8**   **(Page 47)**
►10

اس سے پہلے کہ تمہیں شہوت فتنے میں ڈالے نکاح کرلو

Question : 9 of 10   (Marks: 1) - Please choose one
The microprocessor package has many signals for data. Below are some in Correct priority order (Higher to Lower).

►**Reset,Hold,NMI,INTR   (Page 46)**
►NMI, INTR,Hold,Reset
►INTR,NMI,Reset,Hold
►None of the Given

Question : 10 of 10   (Marks: 1) - Please choose one
The _____function initialize the COM port whose number is passed as parameter using BIOS services.

►Initializecom()
►**Initialize()   (Page 125)**
►Recievechar()
►None of these option

Question : 1 of 10   (Marks: 1) - Please choose one
There are two type of communication synchronous and Anti Synchronous
►True
►**False   (Page 105)**

Question : 2 of 10   (Marks: 1) - Please choose one
REGS is a Union

►**True**
►False

Question : 3 of 10   (Marks: 1) - Please choose one
Keyboard Status Byte is located at the address

► 0040:0000H
► 0040:0013H
► 0040:0015H
► **0040:0017H   (Page 29)**

Question : 4 of 10   (Marks: 1) - Please choose one
If we use keep (0, 1000) in a TSR program, the memory allocated to it is

► 64000 bytes
► 32000 bytes
► **16000 bytes**
► 80000 bytes

Question : 5 of 10   (Marks: 1) - Please choose one
Maximum number of interrupts in a standard PC is

► 64
► 128
► 256   (Page 10)
► 512

Question : 6 of 10   (Marks: 1) - Please choose one
The   -------- function receive a byte and COM port number is passed as parameter using BIOS service

►Receivebyte ();
►Receive ();
►Receivechar ();   (Page 125)
►None of the given option

Question : 7 of 10   (Marks: 1) - Please choose one
------------ whenever receive indicates the start of communication ……….. whenever receive indicates the end of communication

►XON\XOFF   (Page 135)
►XOFF\XON
►XON\YOFF
►YON\XOFF

Question : 8 of 10   (Marks: 1) - Please choose one
------------ is used to set time from RTC

►1A\02H
►1A\03H   (Page 138)
►1A\04H
►1A\05H

Question : 9 of 10   (Marks: 1) - Please choose one
Set the Interrupt vector means to change the double word sized interrupt vector within IVT.
►True   (Page 22)
►False

Question : 10 of 10   (Marks: 1) - Please choose one
If keyboard buffer is empty the head and tail points at the same location.
►True   (Page 55)
►False

Question : 1 of 10   (Marks: 1) - Please choose one
Standard PC can have _____ PPI.
►1
►**4   (Page 84)**
►8
►16

Question : 2 of 10   (Marks: 1) - Please choose one
By cascading two DMAs _____ bits can be transferred.
►4
►8
►**16   (Page 186)**
►32

Question : 3 of 10   (Marks: 1) - Please choose one
PPI interconnection _____ bits is cleared to indicate low nibble is being sent.
►D1
►D2
► D3
► **D4   (Page 101)**

Question : 4 of 10   (Marks: 1) - Please choose one
Display device (Monitor) performs _____ **I**/O.

►**memory mapped   (Page 30)**
►Isolated
►Both of above
►None of these

Question : 5 of 10   (Marks: 1) - Please choose one
Timer interrupt occurs _____ times every second by means of hardware.

►**18.2   (Page 28)**
►16.2
►15.2
►14.2

Question : 6 of 10   (Marks: 1) - Please choose one
An I/O device cannot be directly connected to the busses so controller is placed between CPU and I/O.
►**True   (Page 83)**
►False

Question : 7 of 10   (Marks: 1) - Please choose one
Tail of keyboard should get to get the start of buffer.
►**True   (Page 55)**
►False

Question : 8 of 10   (Marks: 1) - Please choose one
_____ No. of bytes are used to store the character in the keyboard buffer.
► 1
►**2   (Page 54)**
►4
► 8

Question : 9 of 10   (Marks: 1) - Please choose one
We have set the bit No. 7 of IMR(Interrupt Mask Register) to unmask the Interrupt so that interrupt _____ can occur at ____ line.

►**0xf ,IRQ 7**
► 0xa, IRQ 6
► 0x8, IRQ 5
►0x6, IRQ 2

Question : 10 of 10   (Marks: 1) - Please choose one
If we want to produce the grave voice from speaker phone then we have to load the ____ divisor values at Port ____.

►high, 0x42
►low, 0x22
►high, 0x22
►**low, 0x42**

اپنی مرضی اور اللہ کی مرضی میں فرق کا نام غم ہے

وہ لوگ مبارک ہیں جو الفاظ سے نصیحت نہیں کرتے بلکہ عمل سے کرتے ہیں

ہر چیز کی ایک پہچان ہوتی ہے اور عقلمند کی پہچان غور و فکر کرنا ہے اور غور و فکر کی پہچان خاموشی ہے