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CS401 Current Final Term Papers 2018 To 2020

2020

Paper 1

Cs401

50 questions

40 mcqs 80% from past papers

1. In truncated file service which register read service and file attributes

2.SACS instruction works?

3.which interrupt is called scheduler.which main purpose of that.

4.which interrupt interrupt and control back to dos.write name of interrupt and service number.

5.serial port intiziltaion service number and also write attributes of it with service number those initialize them.

6.physical address btna tha

7.data movment instruction de v thi un ka btna tha k kon sy processor me use hoti hain.

8.code dia hua tha btna tha k instruction kya kam kr rhi us me.

9.code likhna tha apna name on top of screen show krny ka.

10.code likhna tha aik array ka jis me 128 elements ho har element 4 byte ka ho or har element ki value 0 ho.

Overall paper bhut easy tha..

Paper 2

CS401 current paper | 10-09-2020 | 08:00 AM

Mostly mcqs from moaaz files and5short questions of 3 number

5 long questions of 5 numbers mostly from past papers

Paper 3

CS401 current paper | 10-09-2020 | 08:00 AM

Mostly mcqs from moaaz files and5short questions of 3 number

5 long questions of 5 numbers mostly from past papers

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Paper 4

Cs401 today paper

30 se 33 tak mcqs past papers main se the muaaz k

Baki concept base the

Relationship b/w IRQ and INT

Rotate through carry right

C and pascal convention

Al,Ah .ch ki instructions lekni thi

2 progam the jab krne hi nahi the to pare nahi

Paper 5

Subjectives Question and its Answers of my Final Tearm CS401 on 12-Sep-2020

Q) Format of DOS input buffer:

Answer:-

Offset Size Description

00 1 maximum characters buffer can hold

01 1 number of chars from last input which may be recalled OR number of characters actually read, excluding CR

02 n actual characters read, including the final carriage return

Q) Describe MOVS instructions

Answer:- (Page 92) MOVS MOVS transfers a byte or word from the source location DS:SI to the destination ES:DI and updates SI and DI to point to the next locations. MOVS is used to move a block of memory. The DF is important in the case of overlapping blocks.

Q) How interrupts are handled in protected mode & IDTR.

Answer:- (Page 182)

Handling interrupts in protected mode is also different. Instead of the IVT at physical address 0 there is the IDT

(interrupt descriptor table) located at physical address stored in IDTR, a special purpose register. The IDTR is

also a 48bit register similar in structure to the GDTR and loaded with another special instruction LGDT.

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Q) VESA service "INT 10 – VESA – Get SuperVGA Information" uses which registers to return the result?

Answer:- (Page 180) To return the result,

"INT 10 – VESA – Get SuperVGA Information" uses: Return: AL = 4Fh if function supported AH = status

INT 10 – VESA – Get SuperVGA Infromation

AX = 4F00h

ES:DI -> buffer for SuperVGA information

Return:

AL = 4Fh if function supported

AH = status

Q) define interrupt INT 0*80

Answer:-

int 0x80 ; multitasking kernel interrupt

Q)Define HOOKING And Unhooking

HOOKING AN INTERRUPT

To hook an interrupt we change the vector corresponding to that interrupt. As soon as the interrupt vector changes, that interrupt will be routed to the new handler. By hooking this interrupt a debugger can get control after every instruction and display the registers etc

Unhooking Interrupt

We now add the interrupt restoring part to our program. This code resets the interrupt vector to the value it had before the start of our program.

Q) How interrupts are handled in protected mode.

Answer:-

Handling interrupts in protected mode is also different. Instead of the IVT at physical address 0 there is the IDT (interrupt descriptor table) located at physical address stored in IDTR, a special purpose register. The IDTR is also a 48bit register similar in structure to the GDTR and loaded with another special instruction LGDT.

Q) INT 14 READ OPERATION from SERIAL PORT

Answer:-

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The BIOS INT 14 provides serial port services. We will use a mix of BIOS services and direct port access for our example. A major limitation in using BIOS is that it does not allows interrupt driven data transfer, i.e. we are interrupted whenever a byte is ready to be read or a byte can be transferred since the previous transmission has completed. To achieve this we have to resort to direct port access. Important BIOS services regarding the serial port

INT 14 - SERIAL - READ CHARACTER FROM PORT

AH = 02h

DX = port number (00h-03h)

Return:

AH = line status

AL = received character if AH bit 7 clear

Q) What is EAX

AX register is extended 32 bit register is renamed as EAX

Q) Define multitasking, its environment and conditions

Answer:-

Multitasking:

*A multitasking environment allows applications to be constructed as a set of independent tasks, each with a separate thread of execution and its own set of system resources. The inter-task communication facilities allow these tasks to synchronize and coordinate their activity.

*Multitasking provides the fundamental mechanism for an application to control and react to multiple, discrete real-world events and is therefore essential for many real-time applications.

*Multitasking creates the appearance of many threads of execution running concurrently when, in fact, the kernel interleaves their execution on the basis of a scheduling algorithm. This also leads to efficient utilization of the CPU time and is essential for many embedded applications where processors are limited in computing speed due to cost, power, silicon area and other constraints.

To realize such a system, the following major functional conditions are to be carried out.

A.Process Management

• interrupt handling

• Task scheduling and dispatch

• create/delete, suspend/resume task

• manage scheduling information – priority, scheduling policy, etc

B.Inter-process Communication and Synchronization

• Code, data and device sharing

• Synchronization, coordination and data exchange mechanisms

• Deadlock and Live-lock detection

C.Memory Management

• Dynamic memory allocation

• Memory locking

• Services for file creation, deletion, reposition and protection

D.Input/Output Management

• Handles request and release functions and read, write functions for a variety of peripherals

Q) write a program add 10 numbers using register + offset addressing mode in assembly language

Paper 6

Today mhr khalil paper cs401 11am

15/09/2020

Mcq from past papers

Objectives

Ibm pc ki interrupt 3mrks

Ibm PC how many input and output 5mrks

Floppy disk how store files in area?3mrks

Serial port initialize 5mrks

Assignment 3 wala code 5mrks

Paper 7

Today mhr khalil paper cs401 11am

15/09/2020

Mcq from past papers

Objectives

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Ibm pc ki interrupt 3mrks

Ibm PC how many input and output 5mrks

Floppy disk how store files in area?3mrks

Serial port initialize 5mrks

Assignment 3 wala code 5mrks

2019

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Overall paper bhut easy tha..

Paper 2

Objective:

Out of 40 mcqs there were 35 mcqs from moaaz and waqar files.

Subjective:

1.S bit and P bit ka function (3 marks)

2. assembly code to print first 5 odd numbers and store its sum in dx

3. Threads Multitasking kay baray m tha question

4. which services is used in Dos INT21 SUPERVGA mode Information? usky attributes

Baki yad nhi

Paper 3

50 questions

40 mcqs 80% from past papers

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Paper 4

Cs401

Most of the mcqs are from muaaz file

Also must read the muaaz past paper file it will be very helpful .

And read all chapters just main main topics

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Paper 5

Today cs401 paper

Mcqs 50% from past

Subjective

Q1. Ah=ooh, Ah=01h, Ah=02h Uses for which services

Q2. Write services for Write disk, read disk and Disk sector Parameter

Q3. Aik program ko complete karna tha

Q4. Interrupt debuggers types in details

Q5. Terminate program to Dos likna tha

Q6. Code descriptor and data descriptor ka differences

Q7. G and S purpose in descriptor and its value

Q8. Koi interrupt 10 ka question tha

Etc...

2018

Paper 1

CS401 Assembly Language paper;

40 Mcqs 36 from waqar and moaz files Mix

Int ki value waly 10 aye thy

Subjective

Which systen progrme use to start the Computer

2;

What the next value if Ax5 bx10 push15

Aur nixhy code diya hua tha

3;

Trap flag k bary me question tha uska valid reason bhi batna tha k kyun use hota

4:

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Control bus data bus adress bus processer and momry likhuaa thaa nichy 5 Values likhii thii aur diagrm bana kar apas me link karna tha unko

For example hum ny ager kuch read karna hooo too adreas memry ki tarh jaye gii ya process kii tarf...'

Paper 2

cs401 paper

mcqs mostly moaaz file say thy

and subjective

1.program bnana tha jo second assignment ki base pay tha assignment main aap k name k characters show hony chayian jab k is program n

main kha gia tha k aap ka name top left pay show hona chayia

2.agr ak program c ya ksi aur language main likha ho to usy assembly say call karny kalyia kon sa register use karain gay

3.terminate and stay resident main service 31 ka function

3.mutitasking main threading k bary main kuch tha

4.calculation of physical address .

bus itna yad hay

The End

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