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Program BSC in CSE

course code CSE 333

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and Interfacing

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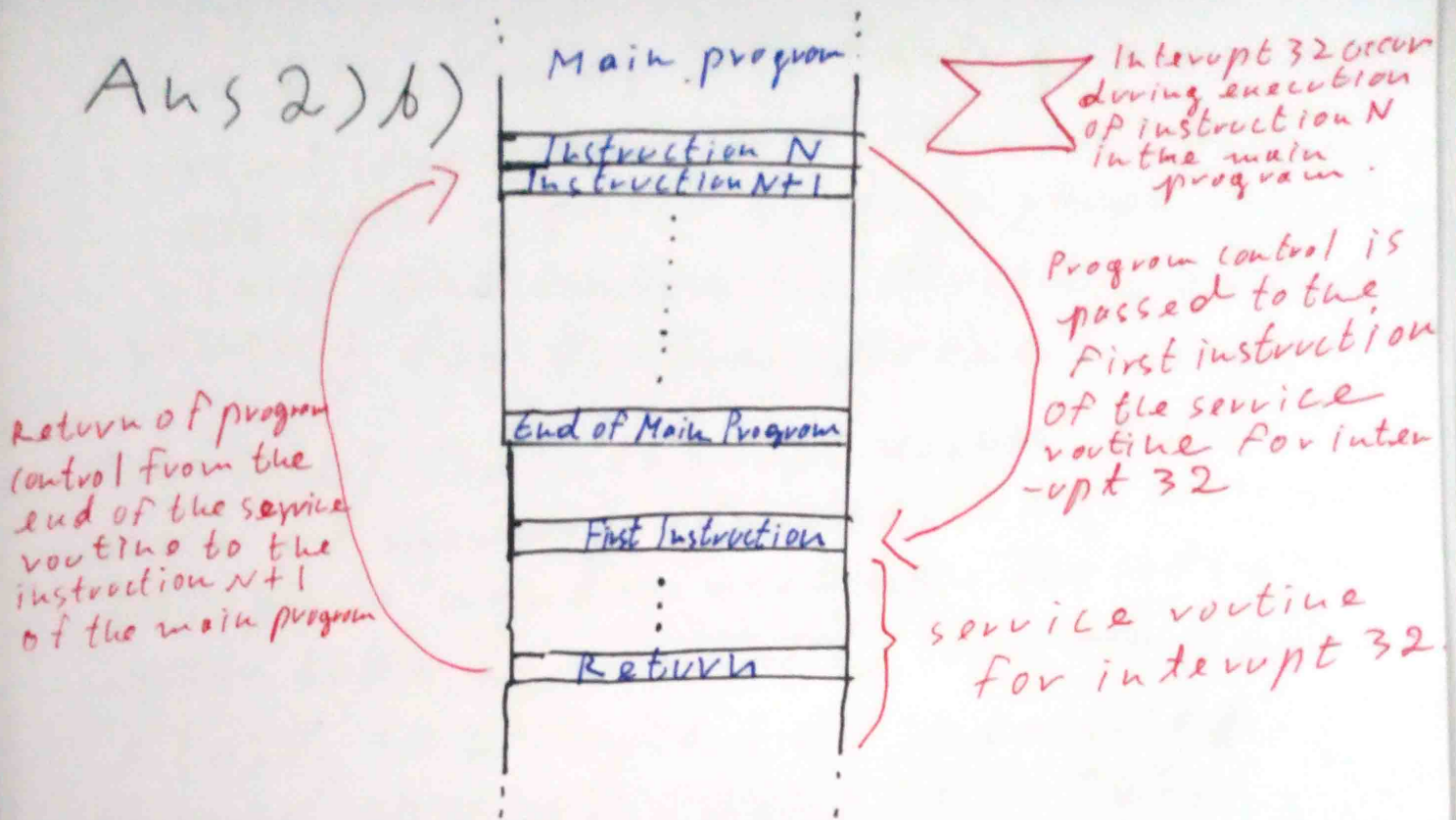
Ans 1) a) The process of connecting peripherals with the microprocessor for transferring instructions and result is known as interfacing as for example Graphical ~~Interface~~ User Interface (GUI). A peripheral is a device that is used to put information into or get information out of the computer as for example, mouse, printers, hard drives.

Ans 1) b) An interrupt is used to cause a temporary halt in the execution of program. For example microprocessor responds to the interrupt with an interrupt service routine, (ISR), which is a short program or subroutine that instructs the microprocessor on how to handle the interrupt.

Ans 2) a) The list of sources of interrupts

- 1) Hardware based interrupt.
- 2) Software based interrupt.
- 3) Internal interrupt.

Ans 2) b)



~~When~~
Ans 2) b) When an interrupt signal occurs, the memory protection unit of hardware must suspend what is doing in the main part of the program and pass control to a special routine the interrupt service routine (ISR) that performs the function required by the external device.

Ans 2) c) 11010110 has maskable interrupts from external interrupt from INTR pin or INT n instruction.

Ans 3) a) Analog interfacing is an electrical connection that forward analog electric signals to downstream electrical and electronic devices or components for further processing.

Ans 3) b) The interrupt vector table is table of memory addresses of interrupt/exception handler routine. The interrupt vector table is normally located in the first 1024 bytes of memory at addresses $00000H - 0003FFH$. It handle specific exception such as fault, system service request, and interrupt request from peripheral.

Interrupt service routine is a short program or subroutine that instructs the microprocessor on how to handle the interrupt. This program is responsible for clearing the source of the interrupt.

Ans 3) c) CS 150 and IP 150 are stored at 0025816 and $0025A16$, we get the address by multiply by four (4) and converting it to binary and at last hexadecimal, then just we put the two correspond address.