solution

# National University of Computer and Emerging Sciences, Lahore Campus

| | Course: | Computer Organization and Assembly Language | | |
|---|---|---|---|---|
| | Program: | BS (Computer Science) | Course Code: | EE-213 |
| | Duration: | 10 minutes | Semester: | Fall 2022 |
| | Paper Date: | 21-11-2022 | Total Marks: | 15 |
| | Section: | | Weight | |
| Instruction/Notes: | Exam: | Quiz 05 | Page(s): | 1 |
| | | | Roll No. | |

**Question 01:** What kind of interrupt is called when a signal is generated on PIC.

Hardware Interrupt

**Question 02:** Replace "int" instruction with simple assembly instructions.

```
old : dd 0
pushf
cli
clt
```

```
mov ax, [es. N x 4]
mov word [old], ax
mov ax, [es: N x 4 + 2]
mov word [old + 2], ax
call far [cs: old]
```

**Question 03:** Hook interrupt 127 to your interrupt service routine.

```
mov ax, 0
mov es, ax
mov word [es: 127 x 4], my_isr
mov word [es: 127 x 4 + 2], cs
```