

Ahsanullah University of Science & Technology Department of Computer Science & Engineering

Course No: CSE2214

Course Title: Assembly Language Programming Sessional

Assignment No: 03

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Section : B

Question No: 01

<u>Question</u>: Determine the physical address of a memory location given by OA51: CD90h

Answerz:

We know that, physical address = segment * 10n + offset Here,

segment = 0A51hoffset = cD30h

So, physical address = $(0.051_h * 10_h) + CD90_h$ = $0.0510_h + CD90_h$ = 172.00_h

auestion No: 02

<u>Overtion</u>: A memorry location has a physical address $4A37B_h$. Compute

- 2.1. The offset address if the segment numbers is AOFFn
- 2.2. The segment number if the offset address is 123Bh.

Answerz:

2.1. We know that, physical address = segment * 10h + offset Herre,

segment = 40FFh

physical address = 4A37Bh

So, offset = physical address - segment * 10h $= 4A37B_h - (40FF_h * 10h)$ $= 4A37B_h - 40FF_0h$ $= 938B_h$

2.2. We know that, physical address = segment *10h + offset
Here,

offset = 123Bh

physical address = 4A37Bh

so, segment = (physical address - offset)/10n= (4A37Bn - 123Bh)/10n= 49140h/10n= 4914h