



Arab Academy for Science, Technology & Maritime Transport  
COLLEGE OF ENGINEERING & TECHNOLOGY

Department : Computer Engineering Department

Course : Computer Organization

Course Code: CC 312

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Sheet #4

1) Consider the following mathematical expressions:

a)  $A = [ ( C + D ) \times ( E - F ) ] / B$

b)  $Z = ( W \times V )^2$

Write a program to evaluate these expressions using:

- 3 address instructions
- 2 address instructions
- 1 address instructions
- Zero address instructions

2) Get the content of AC in each of the following addressing modes after executing:

a) LOAD 201.

b) ADD 500

- Direct
- Indirect
- Immediate
- Indexed

$XR = 100$

Address	Memory
200	
201	500
202	
399	450
400	700
500	800
600	900
702	325
800	300