



Name: _____ **Roll No. P** ____ - _____ **Section:** BAI-4A

Note:

Plagiarism will be marked zero straight away to all parties involved.

Question 2 requires an explanation, which should be kept short and to the point.

Late submissions are not allowed.

Question No. 1:

Write a program in assembly language for each of the below separately that sets the following flags.

(write four programs i.e. One for each part)

- a) Zero Flag
- b) Carry Flag
- c) Parity Flag
- d) Auxillary Flag

Question No. 2:

What will be the size of the following assembly language program in bytes? Explain your answer using “.lst” file of this code.

[org 0x0100]

```
mov ax, 5
mov bx, 10
add ax, bx
mov bx, 15
add ax, bx
mov ax, 0x4c00
int 0x21
```

Question No. 3:

Calculate the physical memory address generated by the following segment-offset pairs:

1DDD:0436

1234:7920

74F0:2123

0000:6727

FFFF:4336

1080:0100