

**Fall 2017 – 2018  
MID 1 Solution**

**Question 1. (6 Marks – 0.5 EACH – NO Partial mark)**

Put your answers of the question 1 (multiple-choice questions) in the following table:

Question	Form (A)	Form (B)	Form (C)
1	B	C	C
2	B	B	C
3	A	B	B
4	B	B	C
5	B	C	C
6	A	A	B
7	C	D	D
8	D	D	A
9	C	D	D
10	B	B	C
11	A	B	B
12	B	B	C

**Question 2. (2 Marks - 0.5 EACH – NO Partial mark)**

a)  $(x \% 3) == 0$

b)  $(x - 5) < 4 \ \&\& \ (x - 5) > -4$

c)  $((x > 50) \ || \ (y > 60)) \ \&\& \ !( (x > 50) \ \&\& \ (y > 60) )$

d)  $(x \% 2 == 0) \ \&\& \ !( (y + 1) \% 2 == 0 )$

**Question 3. (2 Marks - 0.5 EACH – NO Partial mark)**

value of variable a	value of variable b	output (if any)
true	true	Output 1 END
true	false	END
false	true	Output 4 Output 5 END
false	false	Output 3 Output 5 END