

Answer to the ques. no.1

Fast PWM mode 7:

COM0A1	COM0A0	COM0B1	COM0B0	-	-	WGM01	WGM00	TCCR0A
1	1	0	0	0	0	1	1	

$$TCCR0A = 0b11000011;$$

FOC0A	FOC0B	-	-	WGM02	CS02	CS01	CS00	TCCR0B
0	0	0	0	1	0	0	1	

$$TCCR0B = 0b00001001;$$

$$OCR0A = 175;$$

