

# AVR Microcontroller Questions and Answers – Timer Programming

This set of AVR Micro-controller Multiple Choice Questions & Answers (MCQs) focuses on “Timer Programming”.

1. In AVR, which of the following registers are not used for programming timers?

- a) TCNT
- b) TCON
- c) TIFR
- d) None of the mentioned

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2. What is the use of the prescaler in the operation of the timer?

- a) for fast calculations
- b) for increasing the time delay given by the timer by decreasing its frequency of operation
- c) for removing the concept the reloading of count
- d) for easy counter operations

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3. What modes are generally used in the operation of the timer0?

- a) Normal mode
- b) CTC mode
- c) PWM mode
- d) All of the mentioned

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4. Timer 0 can act as a counter \_\_\_\_\_

- a) if the CS02-CS00 are 110 or 111
- b) if the FOC0 bit is set to 110
- c) none of the mentioned
- d) all of the mentioned

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5. Which of the timer can operate in the 16 bit condition?

- a) timer0
- b) timer1
- c) timer2
- d) all of the mentioned

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6. Which of the following will generate the maximum time delay?

- a)  $f/2$
- b)  $f/4$
- c)  $f/16$
- d)  $f/32$

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7. What is the difference in the operation of a normal and a CTC mode of a timer?

- a) in CTC mode PWM is used
- b) here serial timer is monitored
- c) in CTC mode, timer counts up until contents of TCNT register becomes equal to the contents of OCR
- d) none of the mentioned

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8. We can count the pulses on the positive or the negative edge triggered pulse of the clock?

- a) true
- b) false
- c) can't be determined
- d) depends on the circumstances

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9. Which pin is used for the input clock of the counter0?

- a) PORTB.0
- b) PORTB.1
- c) PORTB.2
- d) PORTB.3

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10. Which resource provides the clock pulse to AVR timers if CS02=00=6?

- a) internal clock of the AVR
- b) external clock of the AVR
- c) none of the mentioned
- d) all of the mentioned

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