- 1. List two things you can learn from a peripheral's functional description in the peripheral reference manual?
 - a. Explanation of the purpose of each operating mode
 - b. Basic theory of operation
- 2. What is the title of the first sub-section in the functional description of timers 2 and 3?
 - a. Time-base unit
- 3. What is the purpose of the Prescaler (PSC) register?
 - a. The PSC register divides the input clock frequency to the timer
- 4. What is the purpose of the Auto-Reload (ARR) register?
 - a. the value in the ARR register is the trigger point at which the timer resets and begins to count a new period
- 5. What is the purpose of the Capture/Compare (CCRx) register while the timer is operating in Output Compare mode?
 - a. The output compare mode modifies the output of a GPIO pin whenever the timer's counter matches the value stored in the CCRx register
- 6. What does the duty-cycle of a PWM signal represent?
 - a. f approximating an analog signal using only digital hardware
- 7. What is the purpose of the Alternate Function mode for a GPIO pin?
 - a. Allowing a pin to connect directly to internal peripherals of the STM32F0 is the purpose of the alternate function mode
- 8. In what document can you find the documentation for what GPIO pins have which alternate functions?
 - a. The peripheral reference manual