UNIT -1 QESTION BANK (EMBEDDED SYSTEM DESIGN USING ARDUINO)

1. Draw the ATMEGA 328p Microcontroller Architecture.
2. Draw and explain the AVR CPU.
3. Explain the Arduino IDE.
4. Draw and explain the program status register.

5. Short Notes

* Pulse Width Modulation
* ADC

6. What is the serial communication explain briefly.

### 7. Explain the pulse width modulation in detail.

8. Explain in details about timers.

9. Explain in details Interrupts.

10. Write the interrupt function in detail.

11. Draw the pin diagram of ATMEGA 328p Microcontroller.

12. Draw and explain the general purpose register.

13. Write the specification of ATMEGA 328p Microcontroller.

14. Write the difference between RISC and CISC.

15. Write the difference between Von Neumann and Harvard Architecture.