

Feb. 2019

Tutorial Problems for Lecture1- EEE3131

1. Name two advantages of digital data as compared to analog data.
2. Name an analog quantity other than temperature and sound.
3. Define the sequence of bits represented by each of the following sequences of levels.
 - (a) High, High, low, High, Low, Low , Low, High
 - (b) Low, Low, Low High, Low Low, High, Low , High, Low, High, Low
4. List the sequence of levels that represent each of the following.
 - (1011101) (b) 11101001
5. For the pulse shown in Fig1 graphically determine the following
 - (a) Rise time (b) fall time (c) Pulse width (d) aptitude

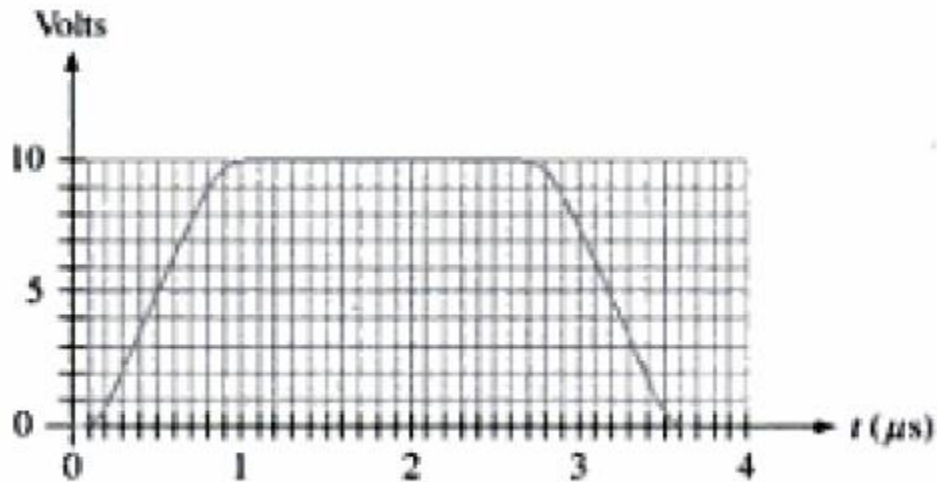


Fig1. Pulse

6. Determine the period of the digital waveform shown in fig2. Indicate whether the waveform is periodic or non-periodic.

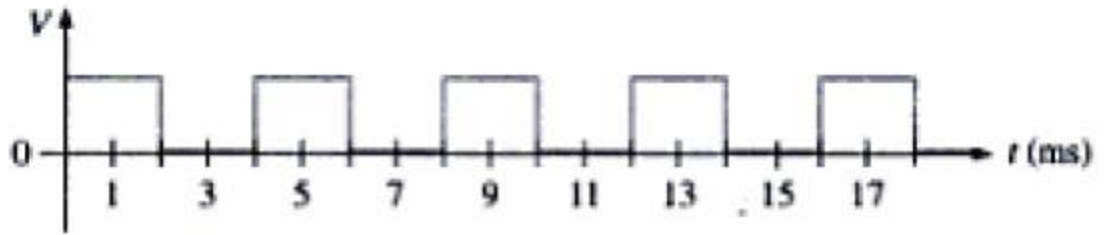


Fig2. Digital Waveform

7. Determine the bit sequence represented by the wave form in figure 3. A bit time is 1 micro second. What is the total time needed to transfer all the bits.

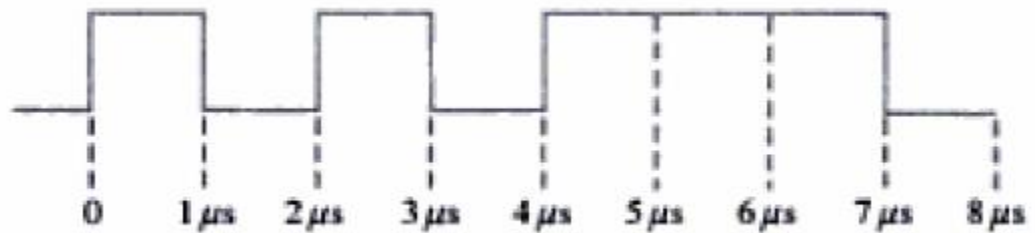


Fig3. Digital waveform

8. What is meant by an IC
9. Explain the term DIP.
10. Label the pin number on the IC package whose view is shown in figure4.



Fig4. IC