

October/ Nov 2009.

Question 1.

Answers to Question.

1.1.1) 10 V.

1.1.2)  $V_{rms} = V_p / \sqrt{2} = 5 / \sqrt{2} = 3.535 \text{ V}.$

1.1.3) 20 V.

1.1.4)  $V_{ave} = 0.637 \times V_p = 0.637 \times 10 = 6.37 \text{ V}.$

1.1.5)  $f = 1/T = 1/3.2 \mu s = 312.5 \text{ kHz}.$

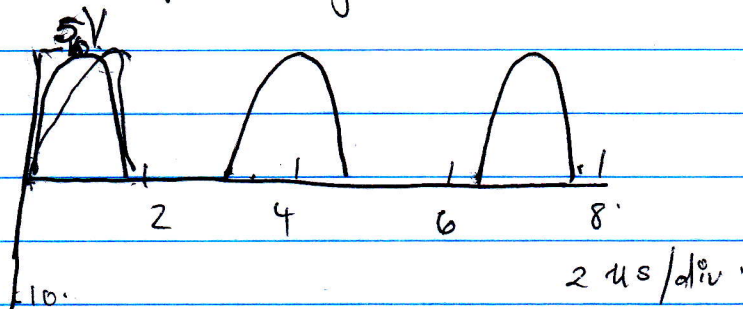
1.1.6)  $P = V_{rms}^2 / R = 3.535^2 / 50 = 249.925 \text{ mW}.$

1.1.7) ~~V<sub>p</sub> = 100 V~~  $V_p = \text{Volt/div} \times \text{Vert distance} \times \text{probe att} = 2 \times 5 \text{ V/div} \times 10 = 100 \text{ V}.$

1.1.8)  $\theta = \frac{t}{T} 360^\circ = \frac{2}{3} \times 360^\circ.$

1.1.9) 2 incomplete Cycles

1.1.10)



(Answer)  
on Pos Slope Trigger.  
(Pls verify) ✓