

淡江大學 104 學年度進修學士班轉學生招生考試試題

系別：電機工程學系三年級

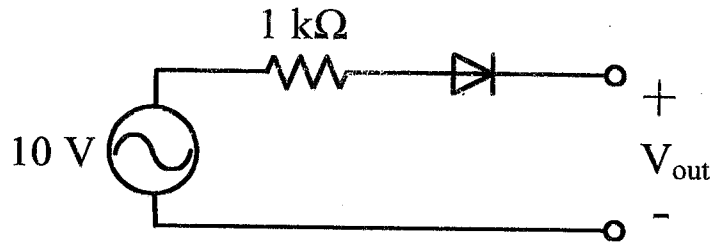
科目：電子學

考試日期：7月24日(星期五) 第3節

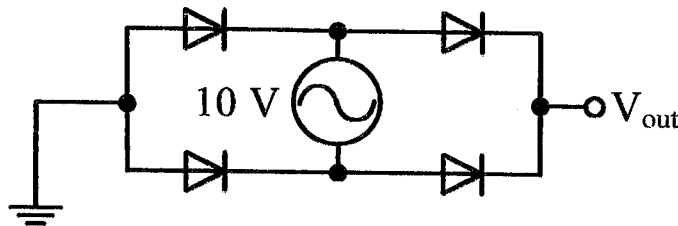
本試題共

大題， 2 頁

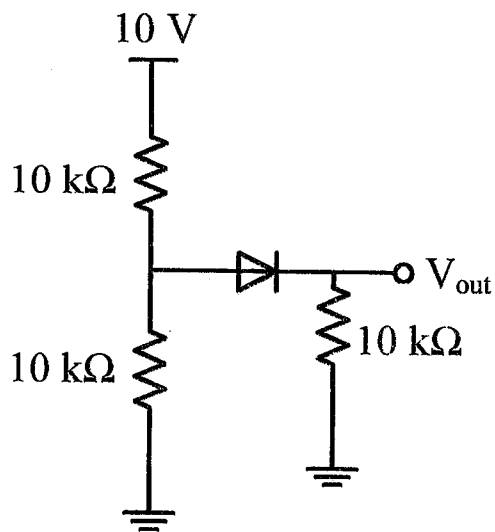
1. Draw the waveform of V_{out} as turn-on voltage of diode is 1 V. (10%)



2. Draw the waveform of V_{out} as turn-on voltage of diode is 1 V. (15%)



3. Determine V_{out} as turn-on voltage of diode is 1 V. (20%)



本試題雙面印刷

背面尚有試題

淡江大學 104 學年度進修學士班轉學生招生考試試題

系別：電機工程學系三年級

科目：電子學

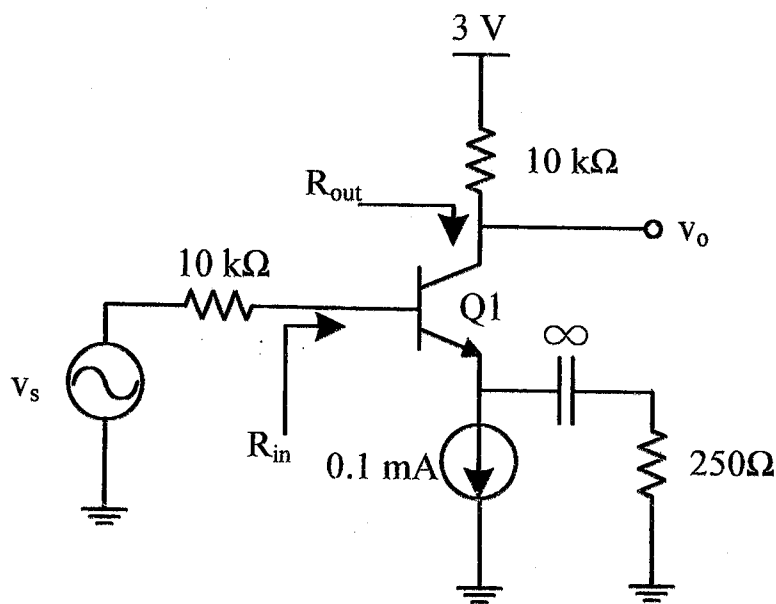
9-2

考試日期：7月24日(星期五) 第3節

本試題共

大題， 2 頁

4. In the circuit shown below, v_s is a small sine-wave signal with zero average value. Assume $\beta=100$, $V_T=25\text{mV}$, $V_A=10\text{V}$.
- Find r_e . (5%)
 - Find R_{in} . (10%)
 - Find R_{out} . (5%)
 - Find v_o/v_s . (20%)



5. Determine the I_B , I_C and V_{CE} of the BJT in the following circuit. Assume $V_{BE}=0.7$, $\beta=100$. (15%)

