

淡江大學九十三學年度進修學士班轉學生招生考試試題 2-1

系別：電機工程學系三年級

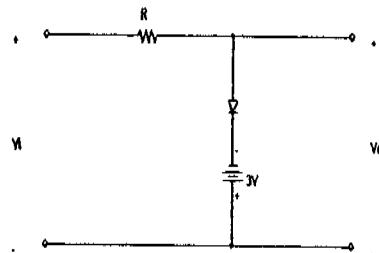
科目：電子學

准帶項目請打「○」否則打「X」
簡單型計算機

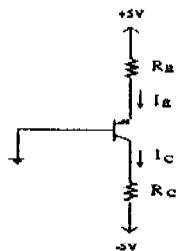
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本試題雙面印製

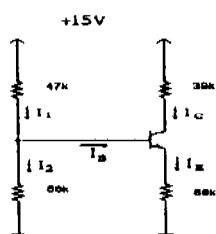
- 20% For an ideal op amp which one of the following characteristics is not correct?
 (A) infinite input resistance
 (B) infinite output resistance
 (C) infinite differential voltage gain
 (D) zero input offset voltage
- 20% Suppose the diode in the following circuit is ideal. Try to draw $V_o(t)$ waveform.



- 20% In the following BJT circuit, try to select the R_E value such that the BJT will operate in the saturation region. Suppose $\beta_{\text{force}}=10$.



- 20% In the following circuit, assume $V_{BE}=0.7V$ and $\beta=100$. Solve I_B , I_C , I_E and V_{CE} values?



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5. 20% In the following circuit, $V_{IE}=1V$, $K=100\mu A/V^2$, and $\lambda=0$. Find V_o ?

