

國立臺北科技大學一〇二學年第一學期  
國立臺北科技大學  
一〇二學年第一學期電機系博士班資格考試  
電力系統保護與協調 試題

第一頁 共一頁

--	--	--	--	--	--	--	--

**注意事項：**

1. 本試題共【4】題，配分共 100 分。
2. 請按順序標明題號作答，不必抄題。
3. 全部答案均須答在試卷答案欄內，否則不予計分。
4. 考試時間：二小時。

1. (20%) Please explain the properties of impedance relay.
2. (20%) What is current differential principle of differential protection? Please graph and address.
3. (30%) What is “Coordination of directional overcurrent relays” of power system? And, try to propose the methods
4. (30%) Please graph the connection of sequence networks for (a) single-line fault with  $Z^f$  refer as the following figure, (b) similar to (a), but b' and c' line-line fault with  $Z^f$ , (c) similar to (a), but b' and c' double line-ground fault with  $Z^f$ .

