

國 立 清 華 大 學 命 題 紙

98 學年度 歷史所 乙 組碩士班入學考試

科目 西方科技史 科目代碼 3202 共 1 頁第 1 頁 *請在【答案卷卡】內作答

一、試舉一個西方科技史中的「科學革命」的例子（如達爾文革命），大致描述其革命特色，然後再評論是否孔恩的「科學革命的結構」理論，能夠恰當的解釋你所舉的例子（如為何會發生這個革命？革命為何會成功？）(34%)

二、Answer the following questions concerning the famous theory of N. Copernicus (1473-1543): (可用中文或英文作答)

- (1) What was this theory about? What were the older theory (or theories) rejected by Copernicus?
- (2) Who (a famous scholar) supported the theory of Copernicus and later was punished for his support? What was his own contribution to physics and astronomy?
- (3) Give an example of a similar "big discovery" in another field. What are the common features of this case and of the case of Copernican theory? What are the differences?
- (4) Can each of these cases be called a "scientific revolution"? Explain what kind of events we can call "scientific revolutions", and why? (33%)

三、請舉出你/妳所知的三本有關西洋科技史的書，並簡要地介紹其要旨，以及其中你/妳認為具有科技史意義的某些要點。(33%)