

每題二十五分

1. "Dolly the sheep, the world's first mammal to be cloned from an adult cell was put to sleep last month. She was only six and a half years old – barely 40 in human terms. Already being treated for arthritis, Dolly was found to be suffering from a progressive lung disease. Normally, sheep can live to 11 or 12 years. Dolly's genetic mother, the one who gave Dolly her DNA, was six when she was cloned." 請問你對上面這一則新聞，有什麼科學上的見解？
2. 請問何謂奈米科技(nanotechnology)?請舉出三個例子說明此科技在生物醫學研究方面的應用性。
3. 人體內各個器官、組織間為了保持協調及恆定，常藉由各種系統來調節。請列舉三種主要負責調控身體的系統並說明其重要性。
4. 生命科學的領域相當廣泛，你想做哪一方面的研究？這樣的研究對整體人類的生存或生活有什麼重要性？