

※ 考生請注意：本試題不可使用計算機。請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

1. The Paris Agreement is an agreement within the framework of the United Nations Framework Convention on Climate Change (UNFCCC) governing carbon dioxide reduction measures from 2020. The agreement was negotiated during the 21st Conference of the Parties of the UNFCCC in Paris and adopted by consensus on 12 December 2015. Please explore the aims of this agreement (8%) and the conditions of this agreement become effective (10%).
2. Please define the $PM_{2.5}$ (7%) and explore the health outcomes of $PM_{2.5}$ according human epidemiology (8%).
3. Please describe the major affect factors for risk perception (7%).
4. The incineration becomes a principal method for treatment of municipal solid waste in Taiwan. Please describe the formation mechanisms (6%) and control measures of dioxins during the combustion of municipal solid waste (4%).
5. Please describe the current status of ozone depletion? (5%) What is the mechanism for ozone depletion? (10%) Is breathing ozone good to our health? (5%)
6. Please use a flow chart to describe the conventional drinking water treatment process, what is the goal of each process? (15%)
7. Please use equations to describe how atmospheric CO_2 concentration affect the rain acidity. (9%)
8. Please describe the main route of transmission and prevention methods for Middle East respiratory syndrome coronavirus (MERS-CoV)? (6%)