

國立臺北大學 104 學年度碩士班一般入學考試試題

系(所)組別：自然資源與環境管理研究所甲組

科目：生態學

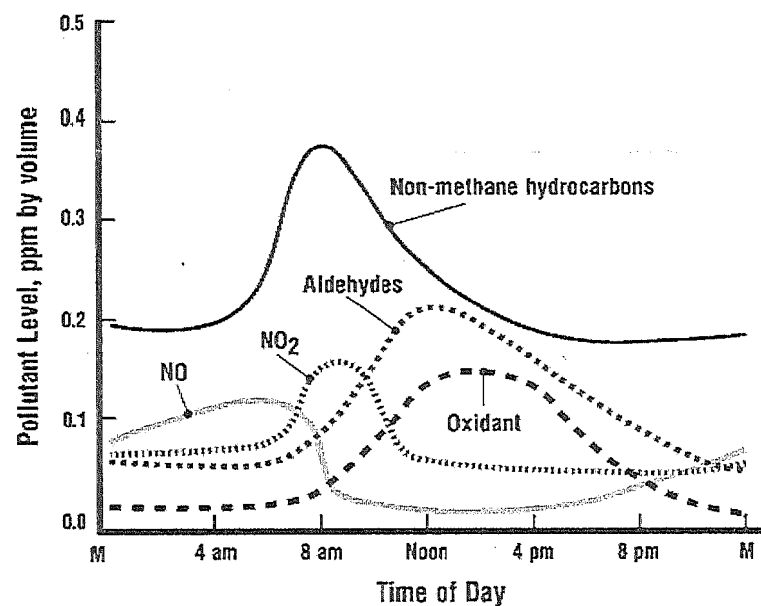
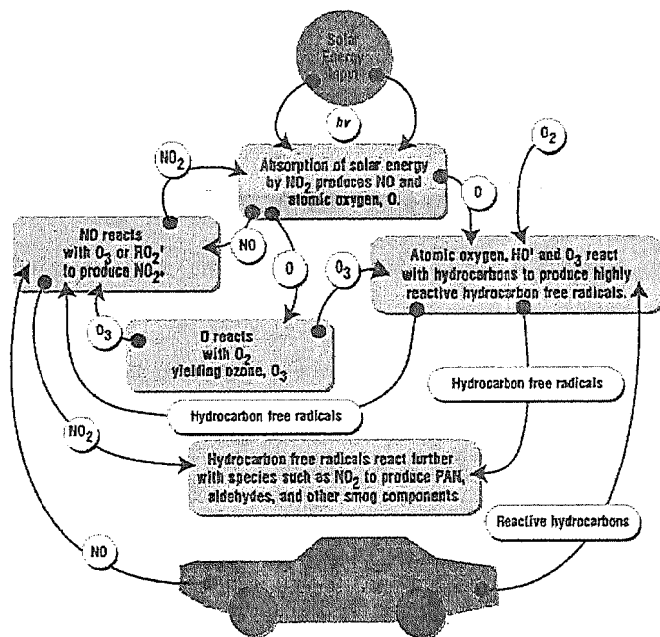
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1. 國家公園具有保存自然景觀、維護野生動植物資源、保留人文史蹟，提供教學、研究、休憩等功能。

台灣可謂為蘊含無限寶藏的瑰島，請說明為妥善保育生態環境，國內已設立幾座國家公園？請舉例說明 2 座國家公園之特色生態環境及主要動植物分布。(20 分)

2. 空氣污染是指在某一區域內，空氣中被輸入一種或多種的污染物，並持續一段時間足以對動植物和人類產生危害的現象。其中光化學煙霧(photochemical smog)是出現在以汽油作動力燃料之後的一種新型污染物，約 1944 年左右出現在美國第三大城市洛杉磯。自 20 世紀 50 年代以來，光化學污染在世界各地不斷出現，已成為一個世界性的問題。請就下圖說明光化學煙霧形成條件、反應機制、對大氣能見度、植物危害及人體健康之影響。(30 分)



Ref: http://jan.ucc.nau.edu/~doetqp-p/courses/env440/env440_2/lectures/lcc40/lcc40.htm

3. 請閱讀此篇文章後，回答下列問題：

Monday brought sad news for animal lovers in Taiwan as Ah-he, an 18-year-old hippopotamus who jumped from a moving truck and was photographed appearing to cry in the street on Friday, succumbed to his injuries and was pronounced dead. Ah-he's predicament had shone a spotlight on lax enforcement of animal protection rules on the island even prior to his death. The male hippo was first injured while being transported from Miaoli County to his home in a private zoo in the city of Taichung. According to reports, he jumped from the truck and collided with a parked car. Television footage showed him lying motionless on the street with a tear-like secretion oozing from his eyes. The 1,190-kilogram animal sustained a second fall hours later when a cable in a freight container snapped, sending him tumbling two meters to the ground, according to government officials. He was being unloaded into a pond for rehabilitation at the time of the second fall. A worker at the temporary shelter where Ah-he was being treated told local media that staff couldn't find the hippo early Monday morning, then realized his body had already sunk to the bottom of the pool. According to the autopsy report released by Taipei City Zoo, the impact from the two falls caused Ah-he lungs to drop to his abdominal area due to a torn diaphragm, resulting in his

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death. Images of the injured hippo spread quickly online and in Taiwanese media, sparking questions about Taiwan's treatment of animals and the government's responsibility in keeping private zoos in check. The island is home to 37 private zoos, according to the Environment and Animal Society of Taiwan, an animal rights group. Private zoos and recreational farms have gained immensely in popularity in recent years. Ah-he had been under the care of the private Skyzoo for 12 years, and was temporarily being kept in Miaoli while his habitat was being renovated, Skyzoo spokesman Tu Yi-lung told China Real Time. "In Taiwan, we have laws and regulations aimed at protecting animals and livestock, but the execution implementation of these laws is often feeble," said Chu Tseng-hung, the head of Environment and Animal Society of Taiwan. Under the island's Animal Protection Act, any animals used for display or entertainment purposes must be government approved. Although Ah-he had been one of Skyzoo's star attractions, the zoo had never acquired a government permit for him, said Mr. Chu. Lin Kuo-chang, an official with Taiwan's Bureau of Forestry, said the government was aware Skyzoo did not have a permit to show Ah-he and had fined the zoo as punishment. He did not say how many times the facility had been inspected or fined. "We can't possibly confiscate all animals when the owners don't follow the rules," Mr. Lin said. "The owners have to fulfill their own responsibility as the caretakers of the animals." Skyzoo's Mr. Tu acknowledged that the zoo had failed to apply for a permit for Ah-he but said the facility had recently stopped advertising the hippo and showing him to visitors. Animal activists said Ah-he was not kept in a safe container or accompanied by a vet during his initial transport, as the law required. "It took almost 20 hours before he was checked out by a vet," said Mr. Chu. Activists have criticized Skyzoo in the past for providing its animals with substandard medical care and keeping them in dirty environments. Mr. Tu said all of the zoo's animals were well cared-for. "We are big animal lovers. If not, why we would have a zoo?" he said. Agriculture minister Chen Bao-ji Monday morning said the zoo operator could face up to a year in jail if found guilty of causing the animal's death due to negligence. - Jenny W. Hsu. Taipei Times

- (1) Please briefly describe the main idea of this topic in Chinese.(10 分)
- (2) What's the questions of the laws and regulations to protect animals and livestock in private zoos?(20 分)
- (3) If you were the owner of the private zoo, how would you manage your zoo legally well?(20 分)

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