科目:環境衛生學

題號: 435

共一頁之第全頁

## ※注意:作答時,請於答案卷上標明作答之大題及其題號。

- (1) 環境中具有生物鏈增 (biomagnification) 的物質有多種,請舉一例,簡述 它的生態影響和對人類健康的潛在意義。(15%)
- (2) 請舉二項曾經造成重大疾病事件的環境污染物。請指出污染物是什麼?在什 麼地方造成重大疾病事件?主要病名或健康問題是什麼? (10%)
- (3) 飲水氣化 (chlorination) 是去除水中細菌、防止輸水途中污染滋生的措施, 但近年來的研究也引起健康疑慮。是為什麼? (10%)
  - (4) Please choose one of the five terms in each question (2 points each question): (10%)(a) The disease of NOT transmitted by is mosquitoes. (A) Malaria (B) Dengue fever (C) Yellow fever (D) Tuberculosis (E) Japanese encephalitis represents (b) nonliving source of pathogens that is able to infect large numbers of individuals. (A) Vector (B) Vehicle (C) Keeper (D) Reservoir (E) Carrier describes that a pollutant is released from a (c) source. (A)Concussion (B) Diffusion (C) Emulsion (D) Emission (E) Perfusion (d) Many carcinogens require for their actions, such as forming epoxide intermediates during metabolism. (A)Bioconcentration (B) Biomagnification (C) Bioactivation (D) Bioremediation (E) Bioaccumulation is a common method to eliminate or minimize exposure to the hazard by introducing large amounts of air into a workplace. (A)Disposition (B) Deposition (C) Coagulation (D) Aspiration (E) Ventilation
- (5) What are persistent organic pollutants (POPs)? What are the reasons about why a POP is usually more persistent in soil than in water? (15%)
- (6) Please list five examples of non-occupational exposure to ionization radiation and non-ionization radiation. (10%)
- (7) What are hospital waste and infection waste? List the suitable management and treatment methods for these wastes? (15%)
- (8) What is health risk assessment? List the uncertainities for health risk assessment. (15%)