

Dear students,

Below we provide a few short answer and multiple-choice questions to give you an idea about the kind of questions to expect. Be aware the provided questions only cover a part of the lectures, however, for the exam all lectures (excluding the 3 student presentations) are relevant!!

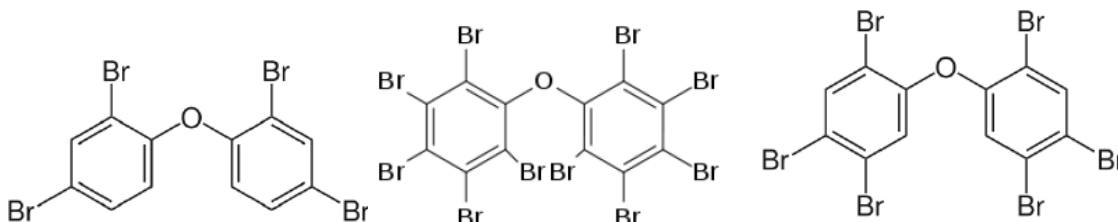
- (a) Which are the two main factors governing the environmental fate of chemicals?
- (b) What are the disadvantages of active air sampling? (Please give 3 examples)
- (c) Name 3 physico-chemical properties that can determine the behavior of a chemical in the environment.
- (d) How does a high sorption coefficient in soil ( $K_d$ ) affects the transport behavior of a chemical?
- (e) What are the disadvantages of spot water sampling? (Please give 3 examples)
- (f) Please select the appropriate combination to fill in the blanks given in the following statement:

Transport processes occur \_\_\_\_\_ of the type of pollutant whereas transformation/transfer processes are \_\_\_\_\_ on the type of pollutant being transported in the system.

- a. independent-independent
- b. dependent-dependent
- c. independent-dependent
- d. dependent-independent

- (g) Which of the following compound classes is considered a by product of industrial processes?
  - a. polycyclic aromatic Hydrocarbons (PAHs)
  - b. polychlorinated biphenyls
  - c. polychlorinated dibenzo-p-dioxins
  - d. herbicides

- (h) These three compounds are:



- a. phthalates
- b. polybrominated diphenyl ethers
- c. p,p'-DDT pesticide and two of its metabolites
- d. polycyclic aromatic hydrocarbons