



GRE TSA UNIVERSITY - THIKA

UNIVERSITY EXAMINATIONS SEPTEMBER - DECEMBER 2021 SEMESTER

DIPLOMA IN PUBLIC HEALTH

COURSE CODE: DIPH 064

**COURSE TITLE: ENVIRONMENTAL POLLUTION AND
CONTROL**

DATE: 16 NOVEMBER 2021

TIME: 8:00 AM - 11:00

AM

INSTRUCTIONS TO CANDIDATES

1. SECTION A IS **COMPULSORY**.
2. SECTION B: ANSWER ANY OTHER **THREE** QUESTIONS.
3. **DO NOT** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
4. ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

CAUTION: *All exam rooms are under CCTV surveillance during the examination period.*

SECTION A: COMPULSORY

MULTIPLE CHOICE QUESTIONS [1-5]

[ONE MARK EACH]

1. Which of the following is not a natural source of air pollution?
 - A. Dust
 - B. Radon
 - C. Power plants
 - D. Smoke
2. Which one of the following is not a waterborne disease caused by polluted drinking water?
 - A. Hepatitis
 - B. Giardiasis
 - C. Typhoid
 - D. Amoebiasis
3. Which of the following is a common source of fossil fuel pollution in transport?
 - A. Petrochemical plant
 - B. Power generating plant
 - C. Aircraft
 - D. Petroleum refineries
4. Which one correctly defines threshold effect
 - A. Environmental damage increases linearly with pollution
 - B. Environmental damage increases with increase in pollution concentration
 - C. Pollution effects are quite often underestimated.
 - D. Pollution produces no effect until certain threshold is achieved.
5. Which of the following is NOT a condition related to water polluted by chemicals?
 - A. Hormonal problems
 - B. Liver and kidney damage
 - C. Damage to DNA
 - D. Destruction of brain function.

SECTION A: COMPULSORY

SHORT ANSWER QUESTIONS [ANSWER ALL QUESTIONS IN THIS SECTION]

1. Define the following terminologies [5 Marks]
 - i. Pollutant
 - ii. Particulate matter
 - iii. Eutrophication
 - iv. Persistent organic pollutants
 - v. Pollution response.
2. List two forms of environmental pollutants [2 Marks]
3. Highlight the sources of indoor pollution [6 Marks]
4. Explain the impacts of noise pollution [7 Marks]
5. Highlight five effects of soil contamination [5 Marks]
6. List four major pollutants produced by human activities [4 Marks]
7. Explain the public health approaches to manage risks of climate change [5 Marks]

SECTION B

[CHOOSE ANY THREE QUESTIONS]

QUESTION ONE

- a) Discuss global warming [10 Marks]
- b) Describe the impacts of climate change on human health [10 Marks]

QUESTION TWO

Discuss water pollution in terms of

- a) Meaning [5 Marks]
- b) sources [5 Marks]
- c) Effects [5 Marks]
- d) management [5 Marks]

QUESTION THREE

- a) Explain ozone layer depletion [5 Marks]
- b) Discuss the health effects arising from the destruction of ozone layer [15 Marks]

QUESTION FOUR

Discuss Pollution prevention strategies in the polluted environment giving the parameters of measuring the pollution level [20 Marks]