



PROGRAM: NATIONAL DIPLOMA
ENVIRONMENTAL HEALTH

SUBJECT: EPIDEMIOLOGY

CODE: **GEP211A**

DATE: SUPPLEMENTARY EXAMINATION

DURATION: 3 HOURS

WEIGHT: 50:50

TOTAL MARKS: 150

EXAMINERS: MRS. S.L.LANGE

MODERATORS: MRS CHADYIWA

NUMBER OF PAGES: 3

INSTRUCTIONS TO STUDENTS:

1. ANSWER ALL THE QUESTIONS.
 2. READ YOUR QUESTIONS CAREFULLY. YOU WILL BE PENALISED IF YOUR ANSWERS ARE NOT PROPERLY STRUCTURED AND NUMBERED.
 3. LEAVE SPACE IN BETWEEN THE ANSWERS.
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QUESTION 1

Briefly describe what epidemiology is used for. (12)

QUESTION 2

List the five natural barriers of the body and describe how each one functions as a barrier. (15)

QUESTION 3

Define in detail a non - communicable disease. (5)

QUESTION 4

Describe the triad of disease and give an example of each component. (6)

QUESTION 5

Describe the primary prevention measures you would take as an EHP in order to prevent malaria, with specific reference to the characteristics of the disease. (20)

QUESTION 6

Discuss the four types of immunization and give an example of each. (12)

QUESTION 7

Describe the breeding habits of bed bugs and the control measures that need to be taken to control them. (10)

QUESTION 8

Answer true or false to the following statements:

8.1 Female mosquitoes feed on nectar, sugar and blood. (1)

8.2 Mosquitoes are vectors for malaria. (1)

8.3 Bedbugs have their first blood meal in the adult stage of the lifecycle. (1)

8.4 Asbestosis is a disease cause by small fibers which become lodged in the kidney. (1)

8.5 Lead poisoning can only occur if lead in ingested. (1)

8.6 Secondary prevention of disease includes immunization and use of legislation. (1)

8.7 The purpose of immunization is to prevent death and reduce suffering from

infections that can be prevented. (1)

8.8 Vaccines should never be kept in the refrigerator. (1)

8.9 Decreased academic achievement, decreased IQ, and decreases in specific cognitive measures, increased incidence of attention-related behaviors and problem behaviors are symptoms of iron poisoning. (1)

8.10 Only live virus vaccines can be used for immunization. (1)

[10]

QUESTION 9

Identify the 10 steps in an outbreak investigation and briefly describe each one. (30)

QUESTION 10

Discuss the sources, causes of exposure, risk groups and preventative measures for asbestos exposure. (20)

QUESTION 11

Briefly discuss how to conduct health surveillance. (10)

TOTAL MARKS 150