



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF HEALTH, APPLIED SCIENCES AND NATURAL RESOURCES

DEPARTMENT OF HEALTH SCIENCES

QUALIFICATION: BACHELOR OF ENVIRONMENTAL HEALTH SCIENCES, HUMAN NUTRITION AND HEALTH INFORMATION MANAGEMENT SYSTEM	
QUALIFICATION CODE: 08BOHS, 08BOHN, 07BHIS	LEVEL: 6
COURSE: EPIDEMIOLOGY 2B	COURSE CODE: EPD 612S
SESSION: NOVEMBER 2022	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S):	MR JOSHUA HIDINWA
MODERATOR:	DR ROSWITHA MAHALIE

INSTRUCTIONS
<ol style="list-style-type: none">1. Answer ALL the questions.2. Write clearly and neatly.3. Number the answers clearly.

PERMISSIBLE MATERIALS

NONE

THIS QUESTION PAPER CONSISTS OF 7 PAGES (Including this front page)

SECTION A [30 MARKS]

QUESTION 1

[10 MARKS]

Select most appropriate answer from the options provided.

Example: 1.35 A

1.1 Which of the following is most common signs of tuberculosis: [1]

- A. Weight loss, fever, headache and diarrhoea.
- B. Cholera treatment
- C. Weight loss, fever, and anemia.
- D. Water treatment
- E. Weight loss, fever, vomiting and pain.

1.2 Which of the following is not an example of control and prevention Tuberculosis: [1]

- A. Case finding
- B. Sputum examination
- C. Use of calipers
- D. BCG vaccination
- E. Isolation

1.3 Which of the following is the causative agent of malaria in human: [1]

- A. P. Mansonei
- B. P. Respiratory infection
- C. Weaken immune system
- D. Mechanical vector-borne transmission
- E. P. falciparum

1.4 Immunization is: [1]

- A. Health promotion
- B. Specific protection
- C. Early detection and treatment
- D. Campaigns for children
- E. School Health activity

1.5 Epidemiology involves study of: [1]

- A. Immunization
- B. People in community
- C. Viruses activities
- D. Distribution of disease
- E. Water treatment

1.6 Which of the following is not direct or indirect transmission of Hepatitis A: [1]

- A. Handshake
- B. Faecal contamination of vegetable
- C. Faecal contamination of water
- D. Faecal contamination of food
- E. Faecal /oral

1.7 Which of the following is not the mode of transmission of Measles: [1]

- A. Droplet spread
- B. direct contact with nasal
- C. Sharing of meals
- D. Direct contact with secretions
- E. Direct contact with throat fluid of infected person.

1.8 Protection of infants from infection up to 3 months of age is due to: [1]

- A. Mother and baby relationship
- B. Breast feeding corner
- C. The care of mother
- D. Presence of fetal haemoglobin
- E. Formula used for the baby

1.9 Herd immunity depends on: [1]

- A. Subclinical infection
- B. Immunization status of herd
- C. Herd structure
- D. Herd participation
- E. Community leader

1.10 All of the following are symptoms of Hepatitis B except: [1]

- A. Nausea
- B. Jaundice
- C. Fatigue
- D. Vomiting
- E. Runny nose

QUESTION 2

[10 MARKS]

Indicate which of the following statements is **True** or **False**

2.1 HIV does not survive well outside the body. [1]

2.2 HIV is primarily found in the blood, semen, or vaginal fluid of someone infected. [1]

2.3 HIV is usually transmitted through daily activities, such as shaking hands, hugging, or a casual kiss. [1]

2.4 Hepatitis B cannot be passed through exposure to contaminated sharp instruments. [1]

2.5 *Streptococcus pneumoniae* is a Gram-, diplococci. [1]

2.6 *Streptococcus pneumoniae* it does not infect bronchi, and alveoli. [1]

2.7 *Bordetella pertussis* causes whooping cough. [1]

2.8 There is no vaccine available for the prevention and treatment of *Bordetella pertussis*. [1]

2.9 *Legionella* species environmental Gram –, fastidious rod, causes pneumonia. [1]

2.10 *Legionella* is not transmitted via airborne from stagnant water of air conditioning cooling towers. [1]

QUESTION 3**[10 MARKS]**

Match the statement in column 1 to the corresponding concept(s) in column 2.

Example: 2.24 A. (Each correct answer earns 1 mark).

Column 1		Column 2	
3.1	Inflammation of mucus membranes of throat.	A	Helping the individual to come to terms with his/her condition and restoring self-worth and self-confidence
3.2	The entry and development and/or multiplication of an infective agent in the body of a susceptible host.	B	Pandemic
3.3	Larynx inflamed and infected.	C	Biofilms
3.4	Causes epidemics and pandemics.	D	Tetanus
3.5	The disease that spreads through many areas of the world involving very large numbers of persons within a short period.	E	Congo fever (Haemorrhagic fever)
3.6	When bacteria adhere to surfaces in aqueous environments and begin to excrete a slimy.	F	Typhoid fever
3.7	This is a major preventable cause of blindness in developing countries where it is endemic.	G	Hepatitis A, food poisoning and intestinal parasites
3.8	This is an important endemic disease in developing countries which is now rare in developed countries.	H	Influenza (flu)
3.9	An acute highly infectious disease which is tick borne.	I	Infection
3.10	An acute infectious communicable disease, abdominal tenderness, pyrexia and diarrhoea.	J	Laryngitis
		K	Trachoma
		L	Observational study
		O	Pandemic
		Q	Pharyngitis

SECTION B [10 MARKS]

QUESTION 4

[10 MARKS]

4.0 Define the following epidemiological terms:

- 4.1 Communicable disease [2]
- 4.2 Infection [2]
- 4.3 Host [2]
- 4.4 Reservoir [2]
- 4.5 Source [2]

SECTION C [40 MARKS]

QUESTION 5

[20 MARKS]

- 5.1 Describe by using examples of transmission of infectious agents. [10]
- 5.2 Discuss the following factors about Tuberculosis: [10]
 - A. Agent. [2]
 - B. Model of transmission. [2]
 - C. Incubation period. [2]
 - D. Age. [2]
 - F. Social. [2]

QUESTION 6

[20 MARKS]

- 6.1 Describe factors associated with intestinal infections of poliomyelitis by using the following:
 - 6.1.1 Agent factors: [4]
 - 6.1.2 Mode of transmission: [4]
 - 6.1.3 Environmental factors: [2]

6.2 Explain the control of Influenza in Humans by means of the following:

6.2.1 Before the Outbreak: [2]

6.2.2 During the Outbreak: [8]

SECTION D [20 MARKS]

QUESTION 7:

[20 MARKS]

7.1 Describe risk factors for vector-borne diseases. [10]

7.2. Outline the objectives of a vector-control strategies in terms of the following:

7.2.1 Environmental Control. [6]

7.2.2 Mechanical Control. [4]

Good luck!!

TOTAL: 100 MARKS