

### **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: JANUARY 2023	PAPER: THEORY	
DURATION: 3 HOURS	MARKS: 100	

SUPPLEMENTARY/SECOND OPPORTUNITY EXAMINATION PAPER		
EXAMINER(S):	MR JOSHUA HIDINWA	
MODERATOR:	DR ROSWITHA MAHALIE	

	INSTRUCTIONS
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 secreted in the saliva of the infected animal	ls: [1]
<ul><li>A. Malaria</li><li>B. Cholera</li><li>C. Anaemia</li><li>D. Congo fever</li><li>E. Rabies</li></ul>	
1.2 Which of the following is the reservoirs of the rabies infections:	[1]
A. Faecal hands	
B. Sewerage	
C. Humans	
D. Dogs	
E. Contaminated water	
1.3 Which of the following disease causes abortion, premature delivery of And death in animal:	of the foetus [1]
A. P. Mansonei	
B. P. Respiratory infection	
C. Brucellosis	
D. Mechanical vector-borne transmission	
E. P. falciparum	
1.4 Mode of transmission of Brucellosis is:	[1]
A. Wastewater	
B. Ingestion of untreated water	
C. Overcrowded	
D. Contact with infected blood	
F. Unvaccinated animals	

1.5 W	hat is the incubation period of Rift Valley Fever?	[1]
B. C. D.	2 to 5 days 1 day 4 to 6 hours 1 to 6 days 12 hours	
	nich of the following is an acute disease of domestic ruminants caused by a osquito-borne virus:	[1]
B. C. D.	Brucella Malaria Tuberculosis Rift Valley Fever Rabies	
	nich of the following is a highly contagious acute respiratory illness which ects humans and animals:	[1]
B. C. D.	HIV Tuberculosis Plasmodium Malaria Influenza	
1.8 Pro	otection of infants from infection up to 3 months of age is due to:	[1]
B. C. D.	Mother and baby relationship Breast feeding corner The care of mother Presence of fetal haemoglobin Formula used for the baby	

1.9 Herd immunity depends on:	
<ul><li>A. Subclinical infection</li><li>B. Immunization status of herd</li><li>C. Herd stracture</li><li>D. Herd participation</li><li>E. Community leader</li></ul>	
1.10 All of the following are symptoms of Hepatitis B except:	[1]
<ul><li>A. Nausea,</li><li>B. Jaundice</li><li>C. Fatigue,</li><li>D. Vomiting,</li><li>E. Runny nose</li></ul>	
QUESTION 2	[10 MARKS]
Indicate which of the following statements is <b>True</b> or <b>False</b>	
2.1 Most Influenza A viruses are classified as low pathogenic strains.	[1]
2.2 Anthrax is not common in agricultural regions.	[1]
2.3 Ebola is transmitted by direct contact with the blood, body fluids a infected persons.	nd tissues of
2.4 Animals are infected with Anthrax during milking. [1]	
2.5 Plague is an acute disease of animals and humans caused by a bact Transmitted from small animals to humans by the bite of infected to	
2.6 Streptococcus pneumoniae it does not Infect bronchi, and alveoli.	[1]
2.7 Trypanosomiasis is a disease that only affects humans.	[1]
2.8 Ebola is not highly virulent viral haemorrhagic fever that is often fatal in man and other primates.	
2.9 Plague can be a very severe disease with a case-fatality ratio of 30% untreated.	%-60% if [1]
2.10 Influenza A viruses does not cause any type of pandemics.	[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	Occurs when a person has been infected and has mounted an immune response but exhibits no symptoms.	А	Carrier
3.2	Is a person, animal or arthropod who harbours an infectious agent in the absence of clinical illness with or without an accompanying detectable immune response.	В	Primary
3.3	This is the first case identified as part of an outbreak.	С	Case
3.4	The first case to introduce an infection into a population.	D	Asymptomati c infection
3.5	A person with gastrointestinal or other relevant infection who has been identified as having a particular disease.	Е	Congo fever (Haemorrhag ic fever)
3.6	Any infectious disease capable of being passed directly from one person to another.	F	Epidemiologi cal link
3.7	Cases are thought to have, a potential common source.	G	Index case
3.8	The period during which a person is likely to have been exposed to a pathogen.	Н	Influenza (flu)
3.9	Any infection of the gastrointestinal tract, regardless of the source. Gastroenteritis may be bacterial, viral or protozoal in nature.	I	Infection
3.1	The segregation of cases (that may be symptomatic or asymptomatic) from the uninfected population.	J	Contagious
		К	Isolation
		L	Gastroenteri tis
		0	Pandemic
		Q	Exposure interval

# SECTION B [20 MARKS]

QUESTION 4	[20 MARKS]
Define the following epidemiological terms:	
4.1 Microbiological clearance:	[2]
4.2 Poliomyelitis:	[2]
4.3 Salmonella food poisoning:	[2]
4.4 Larvicide:	[2]
4.5 Repellent:	[2]
4.6 Asymptomatic infection:	[2]
4.7 Carrier:	[2]
4.8 Contact:	[2]
4.9 Epidemiological link:	[2]
4.10 Exposure-prone groups:	[2]
SECTION C [30 MARKS]	
QUESTION 5:	[20 MARKS]
5.1 Vectors are classified according to their method of transmitting dise mechanical and biological vectors elaborate on those methods.	ase into [10]
5.2 Discuss the challenges for IHR 2005 implementation of member stat	es. [10]

QUESTION 6: [10 MARKS]

6.1 Surveillance is an essential feature of epidemiologic practice discuss the uses of surveillance. [10]

### SECTION D [20 MARKS]

QUESTION 7:	[20 MARKS]
7.1 Outline Surveillance under the following activities:  A. Passive surveillance.	[10] [3]
B. Active surveillance.	[3]
C. Sentinel reporting.	[4]
7.2. Discuss the Criteria for Selecting Vector Control Measures.	[10]
Good luck!!	

**TOTAL: 100 MARKS**