

10.1 Infectious Diseases

Question Paper

Course	CIE A Level Biology (9700) exams from 2022
Section	10. Infectious Diseases
Topic	10.1 Infectious Diseases
Difficulty	Medium

Time allowed: 10

Score: /10

Percentage: /100

Question 1

The table below shows some statements about diseases.

Statements	1	2	3	4
degeneration of lung tissue	✓			✓
caused by virus		✓		
can be treated with antibiotics			✓	✓
infectious disease		✓	✓	✓

key: ✓ = true

Match the 4 names diseases below to the statements above.

Which row gives the correct name for each disease?

	1	2	3	4
A	bronchitis	measles	TB	smallpox
B	emphysema	measles	cholera	lung cancer
C	emphysema	HIV/AIDS	cholera	TB
D	lung cancer	HIV/AIDS	measles	lung cancer

[1 mark]

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Question 2

Improvements in the supply of clean water, sewage treatment, insect control and a milk pasteurisation programme have all been undertaken in a village.

Which of these diseases that are present in the village will not be controlled by these actions?

- A cholera
- B HIV/AIDS
- C tuberculosis
- D Malaria

[1 mark]

Question 3

These are all methods of infectious disease transmission

1	Vector
2	contact
3	Food
4	droplet

Which row correctly matches the organism with the mode of transmission of each of the diseases?

	Malaria	TB	HIV
A	bacterium, 3	protoctist, 1	bacterium, 1 and 3
B	protoctist, 3	virus, 1	bacterium, 3
C	protoctist, 1	bacterium, 3 and 4	virus, 2
D	bacterium, 1	virus, 3 and 2	virus, 2 and 4

[1 mark]

Question 4

The following statements are about people infected with HIV/AIDS.

1	They will have symptoms
2	They can be treated and completely cured
3	They may live for many years after infection

Which ones are correct?

- A** 1 only **B** 1 and 2 **C** 1 and 3 **D** 3 only

[1 mark]

Question 5

After visiting a foreign country, a traveller starts to have fevers at regular intervals. They have blood tests during the fevers, these show a decrease in erythrocytes (anaemia).

Which disease does this person have?

- A** cholera
B HIV/AIDS
C tuberculosis
D Malaria

[1 mark]

Question 6

Which row shows the causative agent, the transmission method and method of control of each disease?

	Disease	causative agent	transmission method	method of control
A	TB	bacterium	air-borne	vaccination
B	malaria	bacterium	insect vector	antimalarial drugs
C	cholera	virus	waterborne	oral rehydration therapy (ORT)
D	HIV/AIDS	virus	intimate contact	antibiotics

[1 mark]

Question 7

Avian bird flu is caused by H5N1 virus. Scientists are concerned that this could affect humans and cause a pandemic.

Which of these measures would help prevent the spread of disease in humans?

1	reducing the number of flights
2	killing all birds
3	taking a course of antibiotics

Which ones are correct?

- A** 1 only **B** 1 and 2 **C** 1 and 3 **D** 3 only

[1 mark]

Question 8

One of the most effective methods for preventing and controlling some diseases is tracking and tracing people who have been in contact with infected people.

Which of these diseases would this be the most effective method for?

- A** Sickle cell anaemia, as it is genetically inherited, so there is time to act before more individuals are affected.
- B** Malaria, as it is transmitted by animals, so the transmission cycle of the pathogen can be broken.
- C** Cholera, as it can be treated successfully with carefully selected antibiotics.
- D** Measles, as it can cause an epidemic and can be controlled by other methods.

[1 mark]

Question 9

Which of the measures listed below would be a reason for increasing the spread of malaria?

1	increasing resistance to antibiotics and other drugs
2	continued migration of people due to war and civil unrest
3	increasing carbon dioxide levels causing global warming

Which of the statements above are correct?

- A** 1 and 2 **B** 1 and 3 **C** 2 and 3 **D** 1, 2 and 3

[1 mark]

Question 10

Which of the following is the best definition for non-infectious disease?

- A** all diseases of old age
- B** diseases caused by malnutrition
- C** all diseases that are not caused by a pathogen
- D** all diseases that can be transmitted from mother to child

[1 mark]

