

BMI3706

May/June 2017

ZOONOSES

Duration 2 Hours

100 Marks

EXAMINATION PANEL AS APPOINTED BY THE DEPARTMENT

Closed book examination

This examination question paper remains the property of the University of South Africa and may not be removed from the examination venue.

This paper consists of 2 pages.

ANSWER ALL THE QUESTIONS

Students must answer the questions in the examination answer book provided.

All the best!

[40]

TOTAL: 100

QUESTION 1

11	Explain why zoonosis is of such great concern in Biomedical sciences	(4)
12	Differentiate between communicable and non-communicable disease and give	
	examples	(4)
13	Discuss the route of transmission of zoonosis from animals to human beings	(6)
1 4	Name and discuss the causative agent of Creutzfeltd-Jacob disease	(6)
15	Describe clinical manifestations caused by prion disease in humans	(5)
		[25]
QUE	ESTION 2	
21	A 65 year old pet shop owner has been diagnosed with Psittacosis He had	
	symptoms for 3 days prior to confirmation and notification. What measures should	
	be taken by the public health doctor dealing with this?	(5)
22	As a biomedical scientist, what can you do to help prevent the spread of zoonotic	
	diseases?	(5)
23	Describe the various conditions caused by Staphylococcus aureus along with their	
	laboratory diagnosis	(10)
		[20]
QUE	ESTION 3	
There is a family outbreak of O157.H7 E coli on a local farm and the family is quite		
concerned about the source of the infection, particularly as the two youngest children		
are	hospitalised with hemorrhagic colitis. The farm has a private water supply and a fast	
food	chain restaurant. Outline the steps that should be taken to investigate this outbreak	
and	identify the extent of any sampling that you would request	[15]
QUE	ESTION 4	
4 1	Discuss the factors that contribute to the emergence of zoonotic disease	(10)
42	Describe the method of prevention of anthrax in animals.	(5)
4.3	Describe the pathogenesis, laboratory diagnosis and treatment of anthrax	(15)
4 4	Discuss laboratory diagnosis methods used for confirming rabies virus infection	(10)

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