

Name of the Student: _____

Max. Marks : 19 Marks

Time : 19 Minutes

Mark Schemes

- Q1.
- (a) (i) antibiotic or named antibiotic
ignore antibodies
accept antiseptic
*do **not** accept disinfectant*
1
- (ii) painkillers
accept named painkillers eg aspirin
1
- (b) (i) 5.5 / 5 ½ weeks
1
- (ii) rose gains **1** mark
rose, then fell then rose again gains **2** marks
a further **1** mark for **one** quantitative statement eg
- rose for 3 weeks / to 14–15 units
 - dropped to 4 weeks / 9 units
 - rose to 7 weeks / 64–65 units
- 3
- (iii) (no)
level begins to fall / is falling (after 7 weeks)
1
- [7]

Q2.

(a) (i) 56

accept 54 – 58

1

(ii) increased

1

reasonable qualification eg slowly then more quickly

or

to 174 / 176

or

by 138 / 140

1

(b) any **two** from:

- no immunity **or** antibodies ineffective
accept no resistance
- no vaccines **or** humans not immunised
- idea of large scale contact **or** large scale travel
*do **not** accept passed on*
ignore no cure

2

[5]

Q3.

(a) decrease in number of deaths (after vaccination started)

1

(b) in correct sequence:

bacteria

1

white blood cells

1

antibodies

1

[4]

Q4.

- (a) dirty clothes/equipment/hands passed bacteria
allow bacteria from any sensible source e.g. surgeon, floor

OR

ease of entry of bacteria (during operations)
*do **not** accept germs*

1

- (b) fewer died

1

indication of reduced number **or** proportion
e.g. 3000 → 600
down by 2400
20% of previous deaths

1

[3]