

Practice Question Set For GCSE
Subject : Biology
Paper-1 Topic: B1 Cell Biology

Name of the Student: _____

Max. Marks : 23 Marks

Time : 23 Minutes

Mark Schemes

Q1.

- (a) animal cells also have cell membrane

1

- (b) 1945–1955

allow 1946–1956

or 1947–1957

1

- (c) $(2 / 22 =) 9.\overset{\bullet}{0}\overset{\bullet}{9}$

allow 9.09 (%) or 9 (%) with no working shown for 1 mark

1

9.1 (%)

allow 9.1 (%) with no working shown for 2 marks

1

- (d)

More likely	Less likely
	✓
	✓
✓	
✓	
✓	

allow 3 marks for 4 correct

allow 2 marks for 3 correct

allow 1 mark for 2 correct

4

more than one tick in a row negates a mark

[8]

Q2.

- (a) mitosis
extra box ticked negates mark
1
- (b) cell division is uncontrolled
extra box ticked negates mark
1
- (c) any **one** from:
 - smoking / tar
 - alcohol
 - carcinogens
allow named chemical
 - viruses (living in cells)
 - (ionising) radiation
accept UV / X-rays / gamma waves
1
- (d) bar plotted at 78%
ignore width of bar
1
- (e) testicular
extra box ticked negates mark
1
- (f) prostate
extra box ticked negates mark
1
- (g) any **two** from:
 - improved treatment / drugs
 - earlier diagnosis
 - more cancer screening
 - improved patient knowledge (of risk factors)
allow improved patient diet / lifestyle
2

[8]

Q3.

- (a) (i) small amounts of dead pathogens 1
- (ii) decrease 1
- by 60 (%)
allow from 70(%) to 10(%)
allow other correct data treatment 1
- (b) (i) penicillin 1
- (ii) any **two** from:
• antibiotics only kill bacteria
allow antibiotics do not kill viruses
• some bacteria are resistant (to antibiotics)
allow MRSA not killed by antibiotics
• (correct) antibiotics not always used
allow course not completed
• deficiency disease(s) not caused by bacteria **or** cannot be treated by antibiotics
• inherited disease(s) not caused by bacteria **or** cannot be treated by antibiotics
• 'lifestyle' diseases not caused by bacteria **or** cannot be treated by antibiotics
eg heart disease / cancer
*if no other mark given allow 1 mark for not all diseases are caused by bacteria **or** some diseases are caused by viruses* 2
- (c) bacteria grow faster
allow this is body temp (at which pathogens grow) 1

[7]