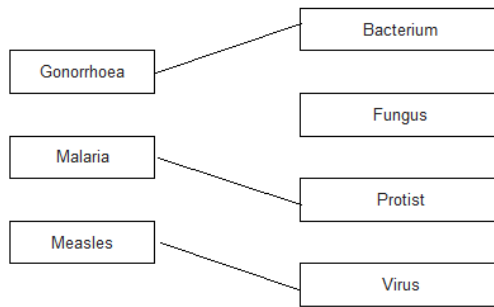


Mark schemes – Biology Unit 3 homework

Q1. a)



3
1

or accept:

wear clean socks / change socks regularly (1)

to reduce the chance of attracting mosquitoes (1)

Q2.

(a) ingest pathogens

1

produce antibodies

1

produce antitoxins

1

deduct 1 mark for each extra box ticked

(b) are not killed / affected (by antibiotic)

allow antibiotic does not work / does not cure

allow bacteria immune (to antibiotic)

allow infection not killed

ignore bacteria mutated

1

Q3.

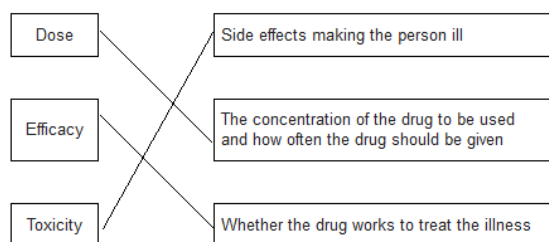
(b) (ii) see if the drug has side effects

1

(iii) neither the volunteers nor the doctors

1

Q4. (c)



all correct for 2 marks

1 or 2 correct for 1 mark

2

(c) resistant

1

1

[6]

Q5.

(b) any **two** from:

- skin acts as a barrier
- blood clots (over cuts)
- nose (hairs) catch particles (breathed in)
- mucus (in trachea / bronchi) traps microorganisms
- acid in stomach kills microorganisms

2

(c) because measles is a virus

1

Q6.

(a) (i) small amounts of dead pathogens

1

(b) (i) penicillin

1

[7]

Q7.

(a) antibodies

allow antitoxins / memory cells
*do **not** allow antigens*

1

immune

ignore protection
allow resistant

1

Q8.

(a) toxins

1