

Name of the Student: _____

Max. Marks : 17 Marks

Time : 17 Minutes

Mark Schemes

Q1.

- (a) is not caused by a pathogen / infective organism
allow not caused by a microorganism / microbe
ignore not caused by infection
ignore named pathogen unless bacteria, virus and fungus
all mentioned
1
- (so) is not passed / spread (from person to person)
allow cannot be spread / caught
allow is not infectious / contagious
1
- (b) reduced / restricted / stopped blood flow
it does not matter where blood flow is restricted to – heart / body
1
- (so) less oxygen reaches heart (muscle / cells)
must reference heart / it
allow no oxygen reaches the heart (muscle / cells)
1
- (so heart muscle / cells) cannot respire (enough)
- or**
- (so heart muscle / cells) do not release (enough) energy
*do **not** accept do not make / produce / create energy*
ignore references to breathing / suffocation
ignore blood clots / blockages
allow 'it' for heart
1
- (c) **Level 3:** Relevant points (factors / effects) are identified, given in detail and logically linked to form a clear account.
5–6
- Level 2:** Relevant points (factors / effects) are identified and there are attempts at logical linking. The resulting account is not fully clear.
3–4
- Level 1:** Points are identified and stated simply, but their relevance is not clear and there is no attempt at logical linking.
1–2

Indicative content

medical risk factors:

- high blood pressure
- high cholesterol
- diabetes
- genetic factors
- medications

lifestyle risk factors:

- smoking
- obesity
- lack of exercise
- high fat / energy diet
- eating insufficient fruit / vegetables
- alcohol
- high salt intake
- exposure to air pollution
- certain drugs / correct named drug

examples of links:

- smoking – high bp / cholesterol / fatty deposition
- obesity – lack of exercise / high bp / cholesterol / fatty deposition / diabetes
- exercise – obesity / bp / diabetes
- diet – obesity / cholesterol / diabetes
- alcohol – bp / cholesterol
- high salt intake – high blood pressure
- genetic factors – bp / cholesterol / diabetes / obesity
- medication – can affect blood / blood vessels / metabolism

the main discriminator is the quality of linking

both lifestyle and medical factors are required for **level 3**

[11]

Q2.

Level 3: Relevant points (advice / reasons) are identified, given in detail and logically linked to form a clear account.

5–6

Level 2: Relevant points (advice / reasons) are identified, and there are attempts at logical linking. The resulting account is not fully clear.

3–4

Level 1: Points are identified and stated simply, but their relevance is not clear and there is no attempt at logical linking.

1–2

No relevant content

0

Indicative content

precautions with reasons

- do not prescribe fluroquinolone / antibiotics for mild infections
- because they will get better due to the body's normal immune system
- do not prescribe fluroquinolone / antibiotics for viral infections / colds / flu
- because antibiotics do not kill viruses
- if you do prescribe fluroquinolone / antibiotics make sure the patient finishes the course
- because any bacteria left may develop resistance, survive and reproduce rapidly (due to lack of competition)
- only prescribe fluroquinolone if the patient has the new strain
- because routine use would lead to an increase in resistant bacteria

other relevant content

- doctors and nurses in the practice / hospital should be using antibacterial / alcohol hand wash between each patient **and / or** disinfectant to clean wards
- to kill (resistant) bacteria
- doctors should isolate patients with this strain of bacteria
- to prevent other patients getting the resistant infection

[6]