



Exchange Surfaces

1 Why do organisms like humans require specialised exchange systems, while organisms like bacteria do not?

.....
.....
.....
.....

[3 marks]

2 Name an exchange surface and give 3 ways it is adapted for its function

Exchange surface:

- 1)
- 2)
- 3)

[4 marks]

3 Name three other exchange surfaces (can be in any organism)

- 1)
- 2)
- 3)

[3 marks]

4 Rank the following organisms in order of their surface area to volume ratio, with 1 being the smallest ratio and 4 being the largest ratio

- Lynx Ant Bacteria Elephant

[2 marks]

5 A human cell can be represented by a 100um x 100um x 100um cube. What is its surface area to volume ratio?

Surface area to volume ratio:

[3 marks]

[Total - 15 marks]