Year 11 Mocks – Combined Science (Biology Higher)

1. State the function of mitochondria and ribosomes.
2. State the function of the xylem in a plant.
3. Describe 2 features of the xylem.
4. State the function of the phloem.
5. Describe 2 feature of the phloem tube.
6. What is transpiration?
7. Name 4 factors that can affect the rate of transpiration.
8. Name a piece of equipment that can measure transpiration and describe simply how it works.
9. Name the 3 tubes that transport blood around the body.
10. Describe the difference between the structure of an artery and vein.
11. What is the purpose of valves?
12. Write the equation for aerobic and anaerobic respiration.
13. Describe why muscles need more blood when you are exercising.
14. Give an example of a leguminous plant?
15. How do leguminous plants ger the nitrogen they need?
16. If 2 organisms exist together and both benefit what is this relationship called?
17. What is the name for a relationship where there is no benefit to one organism?
18. Identify the microbes in the nitrogen cycle.
19. What are the benefits of crop rotation?
20. What is the nitrate taken up by plants used for?
21. Name a barrier and hormonal contraception.
22. How does the combined pill prevent pregnancy?
23. Give a disadvantage of taking a contraceptive pill.
24. Name the causes of type 1 and type 2 diabetes.
25. Explain how type 2 diabetes develops.
26. What is the purpose of thyroxine?
27. What condition will you suffer from if you have a low iron count?
28. What symptoms would you show if you had a low iron count?
29. What adrenaline sometimes called?
30. Where is adrenaline made?
31. What is the effect of adrenaline on the body?
32. Name the product of anaerobic respiration that will lower blood pH after intense exercise.
33. Explain what is meant by eutrophication and the steps that lead to eutrophication.
34. What is biodiversity?
35. Explain the benefits of reforestation and animal conservation.