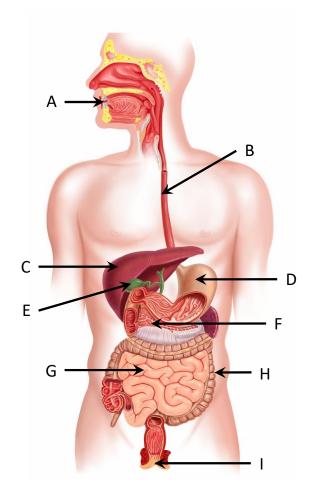
### A. Principles of organisation

1. Put the following in order of size from the smallest to the largest:

2. Define each of the words in the box.

### B. Animal tissues, organs and organ systems Part 1

1. Name parts A - I of the digestive system from the diagram below:



- 2. What is digestion?
- 3. What is an enzyme?

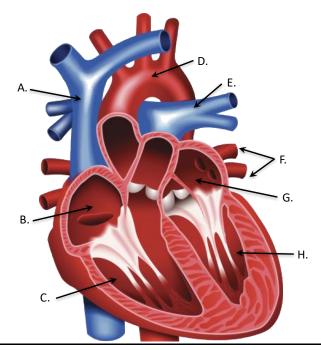
4. Copy and complete the table below:

Digestive Enzyme	Where released?	Breakdown what?
Amylase		
Protease		
Lipase		

- 5. What biological molecule are enzymes made of?
- 6. What is the active site of an enzyme?
- 7. What is a substrate?
- 8. What are the products of digestion used for in the body?
- 9. What does denatured mean?
- 10. How does increasing the temperature affect enzyme activity?
- 11. How does pH affect enzyme activity?
- 12. What is the role of bile in digestion?
- 13. Where in the body is bile made?

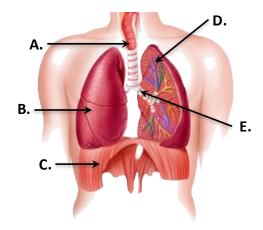
### C. Animal tissues, organs and organ systems Part 2

1. Name parts A - H of the heart from the diagram below:





- 2. What is a double circulatory system?
- 3. What is a pacemaker?
- 4. What is the role of the coronary arteries?
- 5. Where does the left atrium pump blood to?
- 6. Name parts A E of the lung from the diagram:



- 7. Where does gas exchange take place in the lungs?
- 8. Name the gas that moves from the blood into the lungs.
- 9. Name the blood vessels that carry blood away from the heart.
- 10. Which blood vessels are only one cell thick?
- 11. Which blood vessels have thick muscular walls?
- 12. Which blood vessels have valves?
- 13. What is plasma?
- 14. What is the role of a red blood cell?
- 15. In what two ways can white blood cells fight infection?
- 16. What is the role of platelets?
- 17. What is coronary heart disease?
- 18. What are the risk factors for coronary heart disease?
- 19. What is a stent?
- 20. What are statins?

# PIXL

### **KnowIT Questions – AQA GCSE Organisation**

- 21. What is the role of heart valves?
- 22. Give two faults that can occur with heart valves.
- 23. What treatment can be given to a person with faulty heart valves?
- 24. Name three conditions that can lead to heart failure.

#### B. Animal tissues, organs and organ systems Part 3

- 1. Define the word health.
- 2. What are communicable diseases?
- 3. What are non-communicable diseases?
- 4. Name 4 ways that different types of disease can interact to make a person ill.
- 5. List some human costs of non-communicable diseases.
- 6. List some financial costs of non-communicable diseases.
- 7. Name two other risk factors that affect health.
- 8. What are the risk factors for cardio vascular disease?
- 9. What is a risk factor for Type 2 diabetes?
- 10. How does alcohol cause liver disease?
- 11. What does alcohol damage in the brain?
- 12. What is COPD?
- 13. Give two examples of COPD.
- 14. What is the main cause of COPD?
- 15. What is the biggest risk factor for lung cancer?
- 16. What are the symptoms of lung cancer?
- 17. What are the risks of smoking while pregnant?
- 18. What is the risk of heavy drinking throughout pregnancy?
- 19. What is a carcinogen?
- 20. How can carcinogens cause cancer?
- 21. Name four types of carcinogens?



- 22. What is a tumour?
- 23. What are benign tumours?
- 24. What are malignant tumours?
- 25. Which type of tumour is cancerous?

### **B. Plant tissues, organs and systems**

- 1. What is a plant tissue?
- 2. Copy and complete the table for the five types of plant tissue:

Plant tissue	Description and function
Epidermal	
Palisade mesophyll	
Spongy mesophyll	
Xylem and phloem	
Meristem	

- 3. What is the role of the leaf organ?
- 4. What is the role of the guard cells?
- 5. What is a plant organ?
- 6. Name the organs in the plant organ system that transports substances around the plant.
- 7. What is the role of the root hair cell?
- 8. What is transpiration?
- 9. What is translocation?
- 10. What factors increase the rate of transpiration?