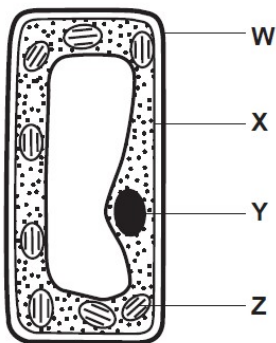


Sample TEST Paper – IGCSE-9th-Biology

Q1. What are characteristics of all organisms?

- A. egestion and excretion
- B. egestion and nutrition
- C. excretion and nutrition
- D. nutrition and photosynthesis

Q2. Use this diagram of the plant cell to answer questions



Which two parts are also found in liver cells?

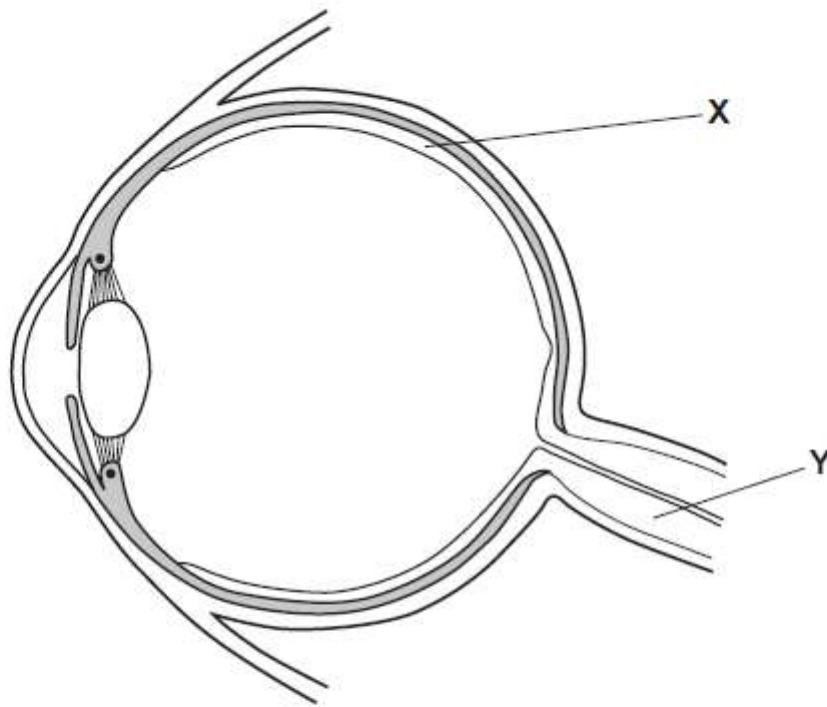
- A** W and X
- B** W and Z
- C** Y and X
- D** Y and Z

In which part of the cell do carbon dioxide and water combine to form glucose?

- A** W
- B** X
- C** Y
- D** Z

Q3.

The diagram shows a section through an eye.



What are structures **X** and **Y**?

- A** organs in an organ system
- B** organs in a tissue
- C** organ systems in an organ
- D** tissues in an organ

Q4.

By which process does oxygen move into the cytoplasm of a root hair cell?

- A** diffusion
- B** osmosis
- C** photosynthesis
- D** transpiration

Q5.

Which statement about enzymes is correct?

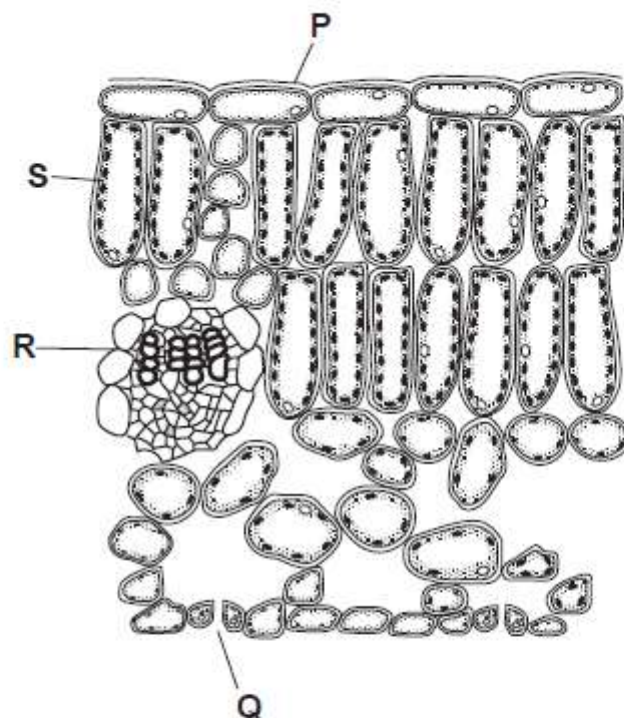
- A Enzymes are carbohydrates.
- B Enzymes are catalysts.
- C Enzymes are not affected by pH.
- D Enzymes are not affected by temperature.

Q6. What are the features of a xylem vessel?

Q7. Which two substances are the products of photosynthesis?

Q8.

The diagram shows a section through a leaf.

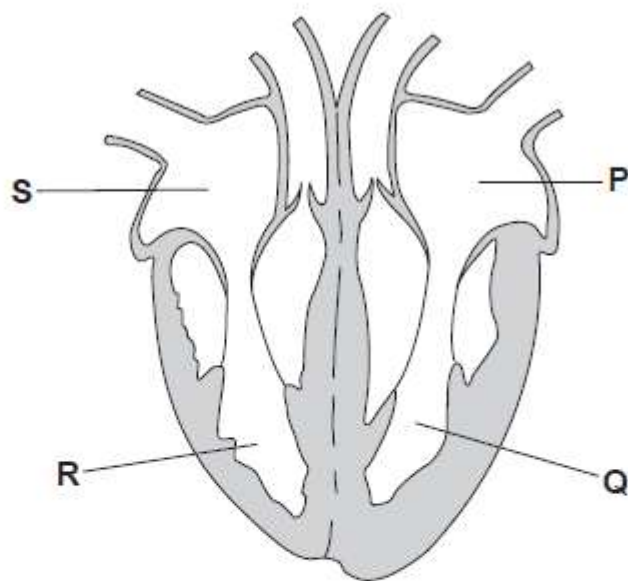


Between which two points does most gaseous exchange take place?

- A P and R
- B Q and S
- C R and Q
- D S and P

Q9.

The diagram shows the four chambers of a human heart.



Which statement describes the direction of blood flow?

- A** Blood enters **P** directly from the lungs.
- B** Blood enters **S** directly from the lungs.
- C** Blood passes directly from **Q** to **P**.
- D** Blood passes directly from **Q** to the lungs.

Q10.

The double circulation of the blood means that, for every complete circuit of the body,

- A** atria and ventricles contract alternately.
- B** blood flows through the arteries and veins.
- C** blood flows through atria and ventricles.
- D** blood flows twice through the heart.

Q11.

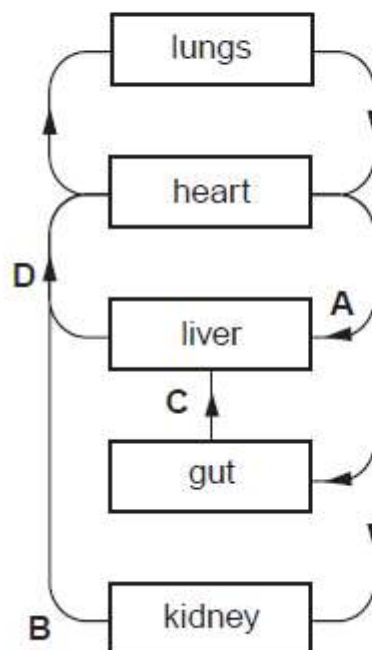
Which air sample has just been breathed out?

air sample	percentage of oxygen	percentage of carbon dioxide	percentage humidity
A	21	0.04	20
B	16	4.04	100
C	4	0.40	80
D	20	4.00	60

Q12.

The diagram shows a plan of part of the human circulatory system.

In which vessel are the breakdown products of alcohol first found?

**Q13.**

Which part of a plant cell controls the movement of substances into and out of the cell?

- A** cell membrane
- B** cell wall
- C** cytoplasm
- D** vacuole

Q14.

The photograph shows a chloroplast magnified $\times 7000$.



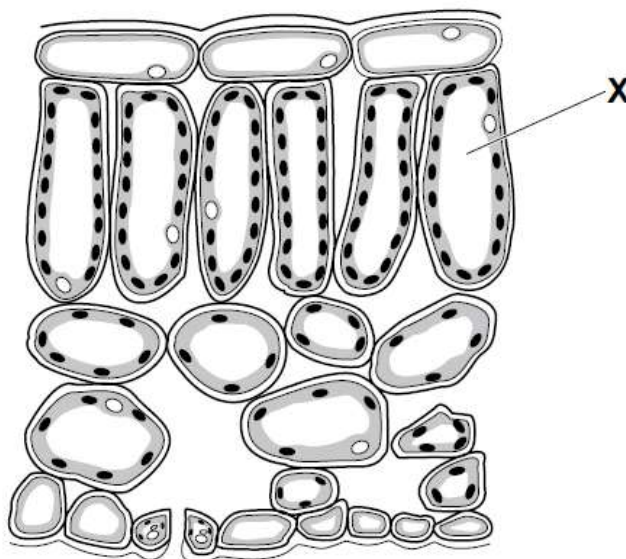
What is the actual size of the chloroplast?

- A** 0.0001 mm **B** 0.001 mm **C** 0.01 mm **D** 100 mm

Q15. How do carbon dioxide and oxygen move into and out of a mesophyll cell?

Q16.

The diagram shows a cross-section of part of a leaf.



What is the name of the cell labelled X?

Q17.

In which part of the body of a mammal does physical digestion occur?

- A** gall bladder
- B** liver
- C** mouth
- D** pancreas

Q18. Which part of the blood contains haemoglobin?

Q19.

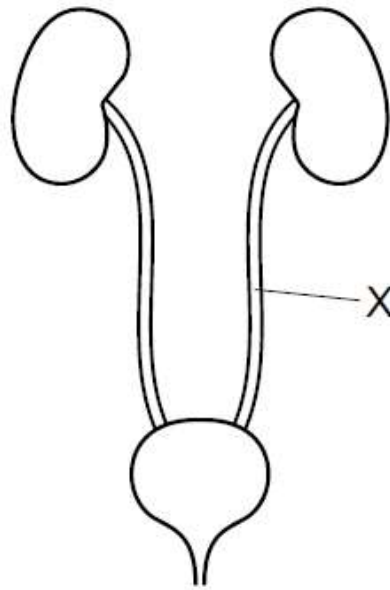
What are the approximate percentages of oxygen and carbon dioxide in inspired air?

	percentage of oxygen	percentage of carbon dioxide
A	16	4.00
B	16	8.00
C	20	0.04
D	20	4.00

Q20. Which environmental conditions must always be present for seed germination?

Q21.

The diagram shows part of the excretory system.



What is structure X?

Q22. Which disease can be caused by a lack of vitamin C?

Q23. Explain - Anaerobic respiration and Aerobic respiration.

Q24. State the function of villi (Villi in the small intestine.).

Q25. Amino acids are used to make proteins. State two examples of proteins that are found in the blood.

Q26. Explain the effect of cholera bacteria on the digestive system.

Q27. Describe what is meant by the term hormone.

Q28. Describe and explain how a reduced concentration of water vapour in the air would increase the movement of water through crop plants.

Q29. Write a note on *catalase* activity.

Q30. What are Guard cells. Explain with diagram.

Q31. What are the smaller basic units of starch and glycogen molecules?

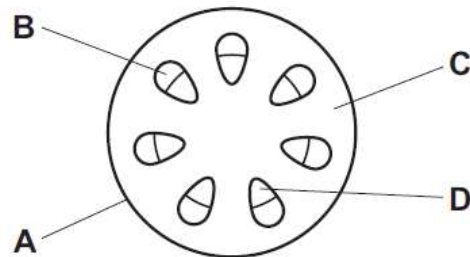
Q32. How do the air spaces in the spongy mesophyll of a leaf help to adapt it for photosynthesis?

Q33. What is the dietary importance of fibre in humans?

Q34.

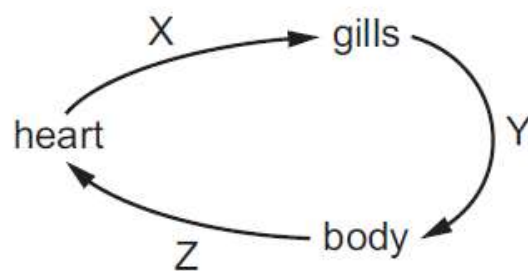
A non-woody plant stem is placed in water containing a red dye. It is left for one day and then a section of the stem is examined using a microscope.

Which tissue is stained red?



Q35.

The diagram shows the circulatory system of a fish.



Where in the circulatory system is the oxygen concentration lowest?

- A** X only **B** X and Y **C** Y only **D** Y and Z