

Name:

Class:



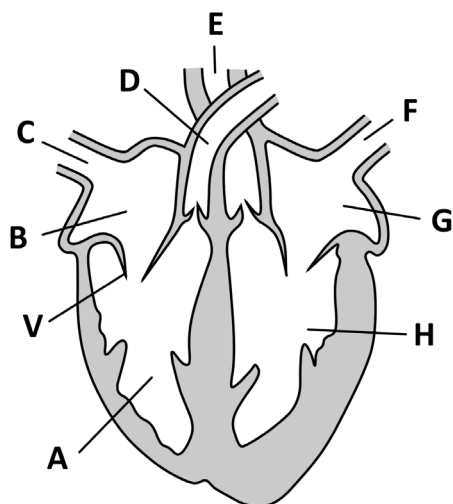
Which of these structures is found in eukaryotic but not prokaryotic cells?

- A Cell wall
- B Cytoplasm
- C Nucleus**
- D Plasmid

Which hormone is important in the fruit ripening process in plants?

- A Ethene**
- B Gibberellins
- C Progesterone
- D Thyroxine

The figure below shows a section through the heart.



i. Name the structures labelled in the diagram.

A = **Right ventricle.**

B = **Right atrium.**

C = **Superior vena cava/ Vena cava.**

D = **Pulmonary artery.**

E = **Aorta.**

F = **Pulmonary vein.**

G = **Left atrium.**

H = **Left ventricle.**

ii. State the name and function of V.

Name: tricuspid valve.

Function: Valves prevent the back flow of blood.

A student uses a simple potometer to study the effect of different temperatures on the cut shoot of a plant. What does the potometer actually measure?

- A Volume of water evaporating from the leaves of the shoot.
- B Volume of water produced by the respiration of the shoot.
- C Volume of water taken up by the shoot.**
- D Volume of water used in photosynthesis in the shoot.

Substances can move across membranes by active transport. Explain what is meant by active transport and state what structure is needed in the membrane for it to take place.

Explanation: it is the movement of a substance from an area of low concentration into an area of high concentration. Moving against its concentration gradient.

Structure: a carrier protein. Carrier protein is the only correct answer.