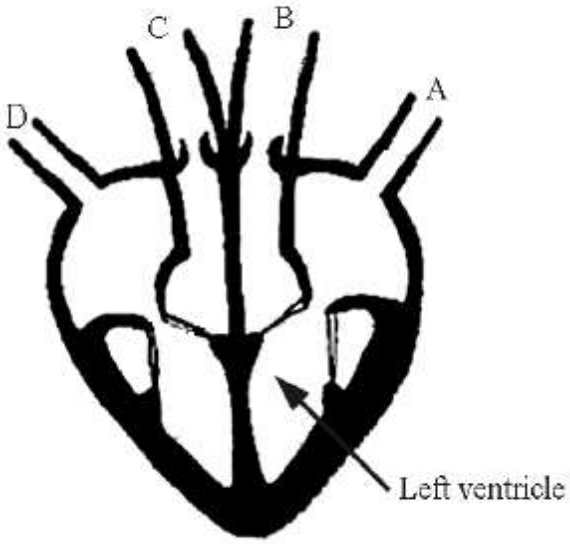

# Science Revised Syllabus
# Junior Certificate
# Higher Level

## Past Exam Questions on
## B Circulatory System and Blood

**Q2 Part (b) 2013**

(*b*) Four blood vessels are attached to the heart. These blood vessels are labelled A, B, C and D in the diagram.




Select any two of the blood vessels A, B, C or D from the diagram.
Identify your selection in each case by using the appropriate letter.
Name the blood vessels selected.
Give the direction of movement of blood into *or* out of the heart in each case.
State if the blood is oxygenated *or* deoxygenated in each case. (18)

Identify _____

Name _____

Direction _____

Oxygenated *or* deoxygenated _____

Identify _____

Name _____

Direction _____

Oxygenated *or* deoxygenated _____

**Q1 Part (b) 2012**

(*b*) Why is blood considered to be a tissue?

Why? _____

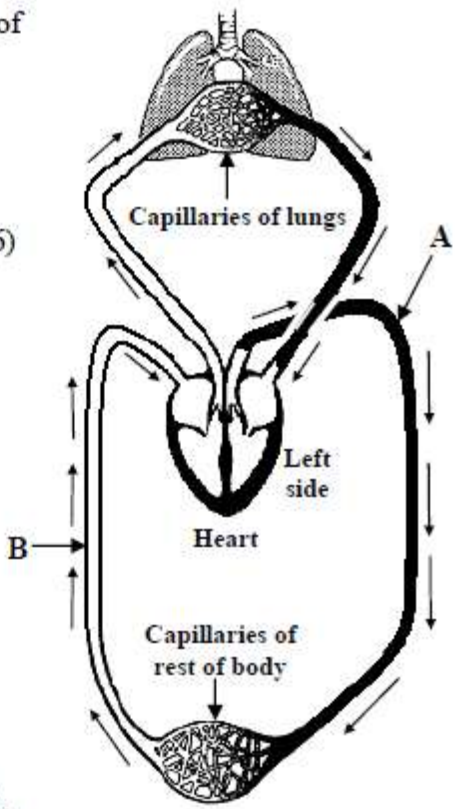
Name a substance transported by blood.

Name _____

**Q2 Part (a) 2011**

**Question 2** (39)

(*a*) The simplified diagram shows the flow of blood through the lungs, heart and the rest of the body.




(*i*) Name the blood vessels labelled A and B. (6)

A _____

B _____

Capillaries are small blood vessels.

(*ii*) Describe two changes in the composition of blood after it has passed through the capillaries of the lungs shown. (6)

1 _____

_____

2 _____

_____

What feature of capillaries allows these changes to happen? (3)

_____

(*iii*) Name the chamber of the heart that pumps blood to the lungs. (3)

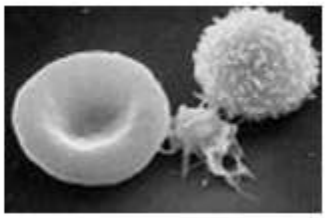
_____

**Q1 Part (d) 2009**

(*d*) Label clearly the ***pulmonary artery with an*** **A**, and the ***pulmonary vein with a*** **V** in the diagram of the heart.


**Q1 Part (b) 2008**

(*b*) The photograph shows a red blood cell and a white blood cell taken using an electron microscope. Give **one** ***function*** for each type blood cell.

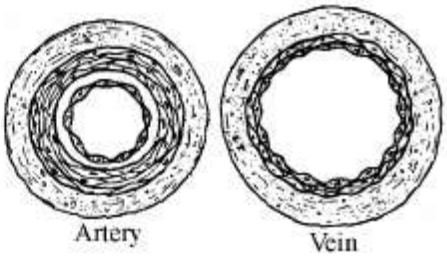


**Red blood cell** _____

**White blood cell** _____

**Q1 Part (f) 2008**

(*f*) The diagram shows cross sections of an artery and of a vein. Why do ***arteries have much thicker walls*** than veins?




**Why?** _____

Give **one** other ***structural difference*** between arteries and veins.

**Difference** _____

**Q2 2006**

(*b*) Blood is a liquid tissue. The diagram shows blood viewed through a microscope.

(*i*) Name **any two** components of blood shown in the diagram. (6)

**Component 1** _____

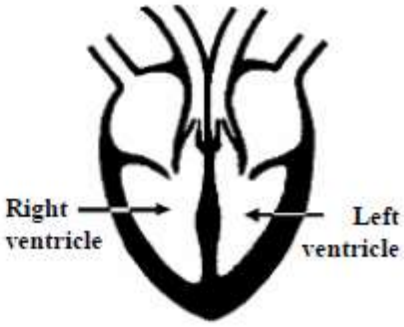
**Component 2** _____

(*ii*) Give the ***function*** of **each** of the components of blood you have named. (6)

**Function of 1** _____

**Function of 2** _____

(*iii*) The diagram shows the human heart.




Why has the left ventricle got a ***thicker wall*** than the right ventricle? (3)

_____

_____

_____

(*c*) The diagram shows a person's ***pulse rate*** being taken.

(*i*) ***What*** causes a ***person's pulse***? (3)

_____

_____

(*ii*) ***How*** is a person's ***pulse rate measured*** using this method? (6)

_____

_____

_____

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(*iii*) An athlete's resting pulse rate is 58. After 10 minutes strenuous exercise their pulse rate was 120. After resting for 5 minutes their pulse rate reduced to 63. ***Clearly account for the rise and fall in pulse rate*** experienced by the athlete. (6)

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_____

_____

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