

IGCSE Biology

Name: _____ Score: _____

1. In a double circulation, blood passes through the heart:
 - ☐ never
 - ☐ once per circuit
 - ☐ twice per full circuit of the body
 - ☐ three times
2. The upper chambers of the heart that receive blood are the:
 - ☐ arteries
 - ☐ atria
 - ☐ ventricles
 - ☐ valves
3. Arteries carry blood:
 - ☐ back to the heart
 - ☐ only to the lungs
 - ☐ away from the heart
 - ☐ in both directions
4. Red blood cells carry oxygen using:
 - ☐ haemoglobin
 - ☐ platelets
 - ☐ plasma
 - ☐ antibodies
5. The pulmonary circulation carries blood between the heart and the:
 - ☐ brain
 - ☐ lungs
 - ☐ legs
 - ☐ liver
6. The right ventricle has a thicker muscular wall than the left.
 - ☐ True ☐ False

7. The pulmonary artery carries deoxygenated blood, showing "artery = away from heart", not "artery = oxygen-rich".

☐ True ☐ False

8. Red blood cells have a large nucleus to control haemoglobin production.

☐ True ☐ False

9. Fish have a double circulation, while mammals have a single circulation.

☐ True ☐ False

10. The lower chambers that pump blood out of the heart are the _____.

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1. **twice per full circuit of the body**

Double circulation means two passes through the heart.

2. **atria**

Atria receive; ventricles pump.

3. **away from the heart**

Arteries carry blood away from the heart.

4. **haemoglobin**

Haemoglobin binds oxygen.

5. **lungs**

Pulmonary = to the lungs for oxygen.

6. **False**

False. The left ventricle has the thicker wall, because it pumps blood at high pressure around the whole body; the right only pumps to the lungs.

7. **True**

Arteries are defined by direction, not oxygen content.

8. **False**

False. Mature red blood cells have no nucleus, leaving more room for haemoglobin; their biconcave shape also suits oxygen transport.

9. **False**

False. It is the other way round: fish have a single circulation, while mammals pump blood through the heart twice per circuit (double circulation).

10. **ventricles**

Ventricles pump; atria receive.