

Answer key:

1. A
2. A
3. C
4. D
5. D
6. D
7. D

The main difference between **single circulatory systems** and double circulatory systems is that in the case of single circulatory systems, blood passes through the heart only once on each circuit around the whole of the blood circulation system of the animal.

(Conversely, in the case of double circulatory systems, blood passes through the heart twice during one complete circuit around the blood system through the body of the animal.)

Neurogenic vs Myogenic heart- In a neurogenic heart, nervous input is required for the heart to contract whereas in a myogenic heart, the heart is capable of generating a cardiac contraction independent of nervous input. A neurogenic heart is most commonly observed in crustaceans.

Portal circulation: any part of the systemic circulation in which blood draining from the capillary bed of one structure flows through a larger vessel(s) to supply the capillary bed of another structure before returning to the heart.

When a woman is pregnant, it's possible that her baby's blood type will be incompatible with her own. This can cause a condition known as **erythroblastosis fetalis**, where the mother's white blood cells attack the baby's red blood cells as they would any foreign invaders. Also known as hemolytic disease of the newborn, this condition is highly preventable. Catching it early can ensure a successful pregnancy for mother and child. If left untreated, this condition can be life-threatening for the baby.