

# Biology 40

# The Circulatory

# System MCQ

Author: OpenStax College

Published 2015

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## 4. Chapter: Biology 40 The Circulatory System MCQ

### 1. Biology 40 The Circulatory System MCQ Questions

#### 4.1.1. Why are open circulatory systems advantageous to some animals?

Author: OpenStax College

Why are open circulatory systems advantageous to some animals?

Please choose only one answer:

- They use less metabolic energy.
- They help the animal move faster.
- They do not need a heart.
- They help large insects develop.

Check the answer of this question online at QuizOver.com:

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#### 4.1.2. Some animals use diffusion instead of a circulatory system. Example...

Author: OpenStax College

Some animals use diffusion instead of a circulatory system. Examples include:

Please choose only one answer:

- birds and jellyfish
- flatworms and arthropods
- mollusks and jellyfish
- None of the above

Check the answer of this question online at QuizOver.com:

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### 4.1.3. Blood flow that is directed through the lungs and back to the heart...

Author: OpenStax College

Blood flow that is directed through the lungs and back to the heart is called \_\_\_\_\_.

Please choose only one answer:

- unidirectional circulation
- gill circulation
- pulmonary circulation
- pulmocutaneous circulation

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#### 4.1.4. White blood cells:

Author: OpenStax College

White blood cells:

Please choose only one answer:

- can be classified as granulocytes or agranulocytes
- defend the body against bacteria and viruses
- are also called leucocytes
- All of the above

Check the answer of this question online at QuizOver.com:

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#### 4.1.5. Platelet plug formation occurs at which point?

Author: OpenStax College

Platelet plug formation occurs at which point?

Please choose only one answer:

- when large megakaryocytes break up into thousands of smaller fragments
- when platelets are dispersed through the blood stream
- when platelets are attracted to a site of blood vessel damage
- none of the above

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#### 4.1.6. In humans, the plasma comprises what percentage of the blood?

Author: OpenStax College

In humans, the plasma comprises what percentage of the blood?

Please choose only one answer:

- 45 percent
- 55 percent
- 25 percent
- 90 percent

Check the answer of this question online at QuizOver.com:

Question: [In humans the plasma comprises what OpenStax College Biology 40 Quest](#)

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#### 4.1.7. The red blood cells of birds differ from mammalian red blood cells ...

Author: OpenStax College

The red blood cells of birds differ from mammalian red blood cells because:

Please choose only one answer:

- they are white and have nuclei
- they do not have nuclei
- they have nuclei
- they fight disease

Check the answer of this question online at QuizOver.com:

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#### 4.1.8. The heart's internal pacemaker beats by:

Author: OpenStax College

The heart's internal pacemaker beats by:

Please choose only one answer:

- an internal implant that sends an electrical impulse through the heart
- the excitation of cardiac muscle cells at the sinoatrial node followed by the atrioventricular node
- the excitation of cardiac muscle cells at the atrioventricular node followed by the sinoatrial node
- the action of the sinus

Check the answer of this question online at QuizOver.com:

Question: [The heart's internal pacemaker beats by: OpenStax College Biology](#)

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4.1.9. During the systolic phase of the cardiac cycle, the heart is \_\_\_\_\_.

Author: OpenStax College

During the systolic phase of the cardiac cycle, the heart is \_\_\_\_\_.

Please choose only one answer:

- contracting
- relaxing
- contracting and relaxing
- filling with blood

Check the answer of this question online at QuizOver.com:

Question: [During the systolic phase of the cardiac OpenStax College Biology](#)

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#### 4.1.10. Cardiomyocytes are similar to skeletal muscle because:

Author: OpenStax College

Cardiomyocytes are similar to skeletal muscle because:

Please choose only one answer:

- they beat involuntarily
- they are used for weight lifting
- they pulse rhythmically
- they are striated

Check the answer of this question online at QuizOver.com:

Question: [Cardiomyocytes are similar to skeletal OpenStax College Biology 4](#)

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#### 4.1.11. How do arteries differ from veins?

Author: OpenStax College

How do arteries differ from veins?

Please choose only one answer:

- Arteries have thicker smooth muscle layers to accommodate the changes in pressure from the heart.
- Arteries carry blood.
- Arteries have thinner smooth muscle layers and valves and move blood by the action of skeletal muscle.
- Arteries are thin walled and are used for gas exchange.

Check the answer of this question online at QuizOver.com:

Question: [How do arteries differ from veins OpenStax College Biology 40 The](#)

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4.1.12. High blood pressure would be a result of \_\_\_\_\_.

Author: OpenStax College

High blood pressure would be a result of \_\_\_\_\_.

Please choose only one answer:

- a high cardiac output and high peripheral resistance
- a high cardiac output and low peripheral resistance
- a low cardiac output and high peripheral resistance
- a low cardiac output and low peripheral resistance

Check the answer of this question online at QuizOver.com:

Question: [High blood pressure would be a result of OpenStax College Biology](#)

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