ONTARIO SCIENCE, GRADE 10, ACADEMIC (SNC2D) · UNIT A · 10 QUESTIONS

Biology: Tissues, Organs, and Systems — Practice Test

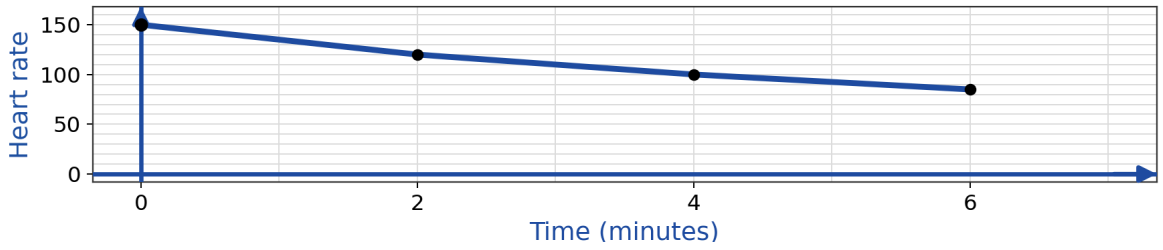
This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Which interaction between organ systems is correct?**

- A The respiratory system supplies oxygen to blood carried by the circulatory system
- B The nervous system filters blood in the kidneys
- C The digestive system pumps blood around the body
- D The skeletal system digests food for the muscular system

Understand It with Pulse | Flag a mistake

2 **The graph shows a student's measured heart rate after exercise stops. The heart rate 4 minutes after exercise stops, in beats per minute, is**



ANSWER

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3 **Which technology helps a person whose heart beats too slowly by sending regular electrical signals to the heart?**

A Artificial joint

B Dialysis machine

C Pacemaker

D Insulin pump

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4 **Some animal structures are listed below. 1 Muscle cell 2 Heart 3 Muscle tissue 4 Circulatory system The order from simplest to most complex is ____. Record your answer as a four-digit number.**

ANSWER _____

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5 **Which plant tissue forms a protective outer layer that reduces water loss from leaves and stems?**

A Xylem

B Phloem

C Meristem

D Epidermis

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6 **A skin cell and a nerve cell in the same person have the same DNA, but different structures. This is best explained by**

- A different genes being switched on in each cell type
- B nerve cells having no chromosomes
- C skin cells dividing by meiosis
- D each cell type having different DNA

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7 **Cloning an animal from a single body cell raises an ethical concern about**

- A the speed of mitosis in the clone
- B the welfare of the cloned animal and its identity
- C the colour of the cloned animal
- D the mass of the cloned animal

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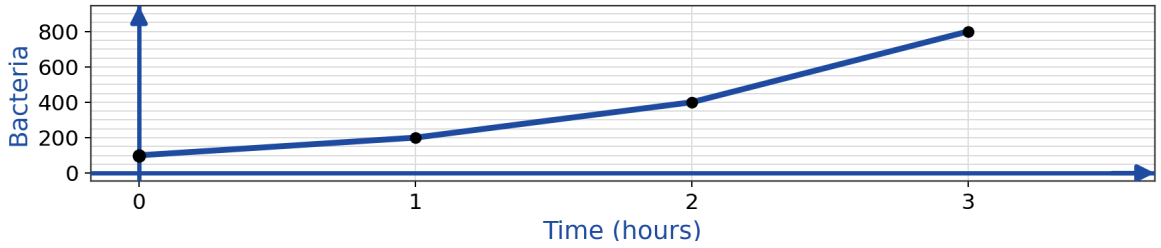
8 **The graph shows the measured number of bacteria in a culture over time. The number of bacteria after 2 hours is**



ANSWER

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9 **A student predicts that seedlings given more water will grow taller. This prediction is best described as a**

A Qualitative observation

B Conclusion

C Controlled variable

D Hypothesis

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10 **Ground tissue in a plant stem mainly functions to**

A store materials and support the plant

B produce new cells at the tip

C control gas exchange through stomata

D transport water upward

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ANSWER KEY

1. A
2. 100
3. C
4. 1324
5. D
6. A
7. B
8. 400
9. D
10. A

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