ONTARIO BIOLOGY, GRADE 11, UNIVERSITY PREPARATION (SBI3U) · UNIT D · 25 QUESTIONS

Animals and Plants: Structure and Function — 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 **The main function of the human digestive system is to**

- A pump blood
- B exchange gases
- C produce hormones
- D break down food and absorb nutrients

Understand It with Pulse | Flag a mistake

2 **Mechanical digestion in humans begins in the**

A mouth

B stomach

C small intestine

D large intestine

Understand It with Pulse | Flag a mistake

3 **Chemical digestion of proteins begins mainly in the**

A mouth

B stomach

C large intestine

D oesophagus

Understand It with Pulse | Flag a mistake

4 **Most nutrient absorption in humans occurs in the**

A stomach

B large intestine

C small intestine

D liver

Understand It with Pulse | Flag a mistake

5 **Villi in the small intestine increase absorption by**

A producing bile

B storing food

C slowing blood flow

D increasing surface area

Understand It with Pulse | Flag a mistake

6 **Bile, produced by the liver, helps digest**

- A fats
- B proteins
- C starches
- D vitamins only

Understand It with Pulse | Flag a mistake

7 **In the human circulatory system, arteries carry blood**

- A always toward the heart
- B away from the heart
- C only to the lungs
- D only when oxygenated

Understand It with Pulse | Flag a mistake

8 **The pulmonary artery is unusual because it carries**

A oxygenated blood to the body

B blood to the liver

C deoxygenated blood from the heart to the lungs

D blood with no cells

Understand It with Pulse | Flag a mistake

9 **Oxygenated blood returns to the heart through the**

A vena cava

B pulmonary artery

C aorta only

D pulmonary veins

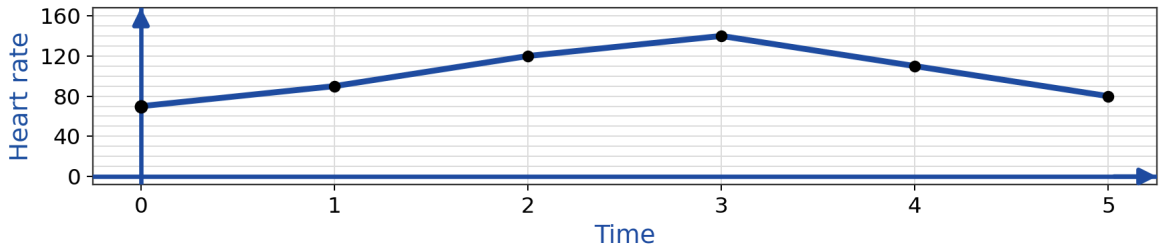
Understand It with Pulse | Flag a mistake

10 **Gas exchange in the lungs occurs in the**

- **A** alveoli
- **B** bronchi
- **C** trachea
- **D** diaphragm

Understand It with Pulse | Flag a mistake

11 **The graph shows heart rate during and after exercise. What is the heart rate in beats per minute at time 3?**



ANSWER _____

Understand It with Pulse | Flag a mistake

12 **Alveoli are well adapted for gas exchange because they have**

- **A** thin walls, a large surface area, and a rich blood supply
- **B** thick walls and small surface area
- **C** no blood supply
- **D** a muscular wall

Understand It with Pulse | Flag a mistake

13 **Red blood cells are adapted to carry oxygen because they**

- **A** have a nucleus and are large
- **B** produce antibodies
- **C** contain haemoglobin and have no nucleus, giving more space for oxygen transport
- **D** clot blood

Understand It with Pulse | Flag a mistake

14 **White blood cells defend the body by**

A carrying oxygen

B clotting blood

C transporting hormones only

D engulfing pathogens and producing antibodies

Understand It with Pulse | Flag a mistake

15 **Platelets are important because they**

A help blood clot

B carry oxygen

C fight infection by antibodies

D transport nutrients

Understand It with Pulse | Flag a mistake

16 **In plants, water is transported upward mainly through the**

A phloem

B xylem

C stomata

D root hairs only

Understand It with Pulse | Flag a mistake

17 **In plants, sugars produced by photosynthesis are transported mainly through the**

A xylem

B cuticle

C phloem

D guard cells

Understand It with Pulse | Flag a mistake

18 **Transpiration is**

- A water uptake by roots only
- B photosynthesis in leaves
- C sugar transport
- D loss of water vapour from leaves, mainly through stomata

Understand It with Pulse | Flag a mistake

19 **Stomata open and close mainly because guard cells**

- A change shape as they gain or lose water
- B are pulled by roots
- C produce chlorophyll
- D divide rapidly

Understand It with Pulse | Flag a mistake

20 **Photosynthesis occurs mainly in the**

- A roots
- B leaves, in chloroplasts
- C stems only
- D flowers

Understand It with Pulse | Flag a mistake

21 **The two main products of photosynthesis are**

- A carbon dioxide and water
- B glucose and carbon dioxide
- C glucose and oxygen
- D oxygen and water only

Understand It with Pulse | Flag a mistake

22 **Cellular respiration in animals releases energy from glucose and produces**

A oxygen and glucose

B only oxygen

C only carbon dioxide

D carbon dioxide and water

Understand It with Pulse | Flag a mistake

23 **The human nervous system coordinates responses using**

A electrical signals through neurons

B hormones only

C blood flow only

D muscle contraction only

Understand It with Pulse | Flag a mistake

24

A reflex action is

A a slow, learned response

B a rapid, automatic response that does not involve conscious thought

C a hormonal response only

D a response that requires training

Understand It with Pulse | Flag a mistake

25

Insulin is a hormone that

A raises blood glucose

B raises blood pressure only

C lowers blood glucose by helping cells take up glucose

D controls growth only

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. D
2. A
3. B
4. C
5. D
6. A
7. B
8. C
9. D
10. A
11. 140
12. A
13. C
14. D
15. A
16. B
17. C
18. D
19. A
20. B
21. C
22. D
23. A
24. B
25. C

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