MANITOBA BIOLOGY 30S · FINAL EXAM · 50 QUESTIONS

Final Exam — 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 **An object of size 2 units seen at magnification 20 times has image size**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **An object of size 6 units seen at magnification 10 times has image size**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A heart beats 65 times per minute. In 3 minutes it beats**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **An object of size 6 units seen at magnification 30 times has image size**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An object of size 8 units seen at magnification 10 times has image size**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The gas released by plants during photosynthesis is**

A carbon dioxide

B nitrogen

C oxygen

D hydrogen

Understand It with Pulse | Flag a mistake

7 **A change in the genetic material of an organism is a**

A adaptation

B mutation

C variation

D selection

Understand It with Pulse | Flag a mistake

8 **The organ that pumps blood around the body is the**

A liver

B lung

C kidney

D heart

Understand It with Pulse | Flag a mistake

9 **A neutral solution has a pH of**

A 7

B 0

C 14

D 1

Understand It with Pulse | Flag a mistake

10 **The control centre of the cell, holding genetic material, is the**

A mitochondrion

B nucleus

C chloroplast

D membrane

Understand It with Pulse | Flag a mistake

11 **In a monohybrid cross of two heterozygous parents, the percent of offspring described is**

ANSWER

Understand It with Pulse | Flag a mistake

12 **The basic unit of life is the**

A organ

B cell

C tissue

D organism

Understand It with Pulse | Flag a mistake

13 **The chemical symbol for water is**

A CO_2

B H_2O

C O_2

D NaCl

Understand It with Pulse | Flag a mistake

14 **The chemical symbol for carbon dioxide is**

A CO_2

B H_2O

C O_2

D CO

Understand It with Pulse | Flag a mistake

15 **The process of gas changing to liquid is**

A evaporation

B sublimation

C condensation

D melting

Understand It with Pulse | Flag a mistake

16 **The gas plants absorb from the air for photosynthesis is**

A oxygen

B carbon dioxide

C nitrogen

D hydrogen

Understand It with Pulse | Flag a mistake

17 **The force that pulls objects toward Earth is**

A friction

B magnetism

C inertia

D gravity

Understand It with Pulse | Flag a mistake

18 **The movement of water across a partially permeable membrane is**

A diffusion

B active transport

C osmosis

D photosynthesis

Understand It with Pulse | Flag a mistake

19 **An acid has a pH that is**

A equal to 7

B greater than 7

C equal to 14

D less than 7

Understand It with Pulse | Flag a mistake

20 **The layer of gases surrounding Earth is the**

A lithosphere

B hydrosphere

C biosphere

D atmosphere

Understand It with Pulse | Flag a mistake

21 **An object of size 8 units seen at magnification 40 times has image size**

ANSWER

Understand It with Pulse | Flag a mistake

22 **An object of size 4 units seen at magnification 30 times has image size**

ANSWER

Understand It with Pulse | Flag a mistake

23 **50 grams of protein provide energy at 4 kilocalories per gram. The energy is, in kilocalories**

ANSWER

Understand It with Pulse | Flag a mistake

24 **An object of size 4 units seen at magnification 50 times has image size**

ANSWER

Understand It with Pulse | Flag a mistake

25 **One cell divides 4 times with no cell death. The number of cells is**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **A population of 10 doubles 4 times. Its final size is**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **A heart beats 95 times per minute. In 5 minutes it beats**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **A population of 20 doubles 4 times. Its final size is**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **A heart beats 85 times per minute. In 3 minutes it beats**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **A population of 50 doubles 4 times. Its final size is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **A population of 40 doubles 3 times. Its final size is**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **A population of 30 doubles 3 times. Its final size is**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **An object of size 8 units seen at magnification 30 times has image size**

ANSWER

Understand It with Pulse | Flag a mistake

34 **An object of size 2 units seen at magnification 10 times has image size**

ANSWER

Understand It with Pulse | Flag a mistake

35 **An object of size 4 units seen at magnification 40 times has image size**

ANSWER

Understand It with Pulse | Flag a mistake

36 **An object of size 3 units seen at magnification 30 times has image size**

ANSWER

Understand It with Pulse | Flag a mistake

37 **A heart beats 75 times per minute. In 5 minutes it beats**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **A population of 40 doubles 4 times. Its final size is**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **An object of size 5 units seen at magnification 10 times has image size**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **An object of size 7 units seen at magnification 40 times has image size**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **The organelle where photosynthesis happens in plant cells is the**

A mitochondrion

B nucleus

C chloroplast

D vacuole

Understand It with Pulse | Flag a mistake

42 **The maintenance of a stable internal environment is**

A photosynthesis

B fermentation

C osmosis

D homeostasis

Understand It with Pulse | Flag a mistake

43 **The passing of traits from parents to offspring is**

A heredity

B evolution

C homeostasis

D metabolism

Understand It with Pulse | Flag a mistake

44 **The planet closest to the Sun is**

A Venus

B Mars

C Mercury

D Earth

Understand It with Pulse | Flag a mistake

45 **The powerhouse of the cell, where energy is released, is the**

- A mitochondrion
- B nucleus
- C ribosome
- D vacuole

Understand It with Pulse | Flag a mistake

46 **The process that releases energy from food in cells is**

- A photosynthesis
- B cellular respiration
- C osmosis
- D diffusion

Understand It with Pulse | Flag a mistake

47 **An object of size 5 units seen at magnification 50 times has image size**

ANSWER

Understand It with Pulse | Flag a mistake

48 **The unit of power is the**

A watt

B joule

C newton

D ampere

Understand It with Pulse | Flag a mistake

49 **The unit of voltage is the**

- A volt
- B ampere
- C ohm
- D watt

Understand It with Pulse | Flag a mistake

50 **The unit of force is the**

- A newton
- B joule
- C watt
- D pascal

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	40	**18.**	C	**35.**	160
2.	60	**19.**	D	**36.**	90
3.	195	**20.**	D	**37.**	375
4.	180	**21.**	320	**38.**	640
5.	80	**22.**	120	**39.**	50
6.	C	**23.**	200	**40.**	280
7.	B	**24.**	200	**41.**	C
8.	D	**25.**	64	**42.**	D
9.	A	**26.**	160	**43.**	A
10.	B	**27.**	475	**44.**	C
11.	75	**28.**	320	**45.**	A
12.	B	**29.**	255	**46.**	B
13.	B	**30.**	800	**47.**	250
14.	A	**31.**	320	**48.**	A
15.	C	**32.**	240	**49.**	A
16.	B	**33.**	240	**50.**	A
17.	D	**34.**	20		

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