PRINCE EDWARD ISLAND BIOLOGY 11 · FINAL EXAM

Final Exam — Practice Test

Prince Edward Island Biology 11 • 50 questions

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 **A solution is made by dissolving 5 grams of salt in 100 millilitres of water. What is the concentration of the solution in grams per 100 millilitres**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Glycolysis produces a net gain of 2 ATP molecules per glucose molecule. How many ATP molecules in total are gained from 2 glucose molecules by glycolysis alone**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Cardiac output equals heart rate times stroke volume. If heart rate is 70 beats per minute and stroke volume is 70 millilitres per beat, what is the cardiac output in millilitres per minute**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A signal passes through 3 neurons in a row, and each synapse adds a delay of 0.002 seconds. What is the total synaptic delay in seconds, to three decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Body mass index equals mass in kilograms divided by height in metres squared. For a person with mass 72 kilograms and height 1.5 metres, what is the body mass index**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A red blood cell placed in a very salty solution will tend to**

A gain water and swell

B lose water and shrink

C stay unchanged

D divide

Understand It with Pulse | Flag a mistake

7 **Anaerobic respiration in yeast produces**

A lactic acid only

B ethanol and carbon dioxide

C oxygen

D water only

Understand It with Pulse | Flag a mistake

8 **Arteries carry blood**

A toward the heart

B only to the lungs

C away from the heart

D only in veins

Understand It with Pulse | Flag a mistake

9 **A vaccine works by exposing the immune system to a**

A live disease always

B hormone

C antibiotic

D harmless form of a pathogen

Understand It with Pulse | Flag a mistake

10 **A disorder present from birth is described as**

A congenital

B infectious

C acquired

D contagious

Understand It with Pulse | Flag a mistake

11 **Butter and olive oil are rich in**

A carbohydrates

B lipids

C proteins

D nucleic acids

Understand It with Pulse | Flag a mistake

12 **Cellular respiration and photosynthesis are linked because the products of one are the**

A enzymes of the other

B waste only

C reactants of the other

D pigments of the other

Understand It with Pulse | Flag a mistake

13 **Gas exchange in the lungs takes place in the**

A trachea

B bronchi only

C diaphragm

D alveoli

Understand It with Pulse | Flag a mistake

14 **Antibodies are produced by the immune system to target**

A specific antigens

B all cells

C hormones

D neurons

Understand It with Pulse | Flag a mistake

15 **A stroke occurs when blood supply to part of the**

A heart only

B brain is interrupted

C lung only

D kidney only

Understand It with Pulse | Flag a mistake

16 **Endocytosis brings material into a cell by**

A diffusion through a pore

B pumping ions only

C wrapping it in membrane

D osmosis only

Understand It with Pulse | Flag a mistake

17 **Photosynthesis takes place mainly in the**

A chloroplast

B mitochondrion

C nucleus

D ribosome

Understand It with Pulse | Flag a mistake

18 **Oxygenated blood is pumped to the body by the**

A left ventricle

B right ventricle

C left atrium

D right atrium

Understand It with Pulse | Flag a mistake

19 **Insulin is a hormone produced by the**

A thyroid gland

B adrenal gland

C pituitary gland

D pancreas

Understand It with Pulse | Flag a mistake

20 **Cancer involves cells that**

A stop dividing

B die normally

C divide without normal control

D become neurons

Understand It with Pulse | Flag a mistake

21 **A polypeptide chain is made of 25 amino acids joined in a row. How many peptide bonds join the amino acids in the chain**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **Cellular respiration of 2 glucose molecules uses how many oxygen molecules in total, if each glucose uses 6 oxygen molecules**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A resting heart beats at 80 beats per minute. How many beats does it make in 5 minutes**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A nerve impulse travels 3 metres at a speed of 30 metres per second. How many seconds does the impulse take, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A condition affects 1 person in every 200 people. In a population of 20000 people, about how many people are affected**

ANSWER

Understand It with Pulse | Flag a mistake

26 **A polypeptide chain is made of 50 amino acids joined in a row. How many peptide bonds join the amino acids in the chain**

ANSWER

Understand It with Pulse | Flag a mistake

27 **Cellular respiration of 3 glucose molecules uses how many oxygen molecules in total, if each glucose uses 6 oxygen molecules**

ANSWER

Understand It with Pulse | Flag a mistake

28 **A person breathes at 20 breaths per minute with a tidal volume of 500 millilitres per breath. What is the minute ventilation in millilitres per minute**

ANSWER

Understand It with Pulse | Flag a mistake

29 **A nerve impulse travels 5 metres at a speed of 25 metres per second. How many seconds does the impulse take, to two decimal places**

ANSWER

Understand It with Pulse | Flag a mistake

30 **A condition affects 1 person in every 100 people. In a population of 5000 people, about how many people are affected**

ANSWER

Understand It with Pulse | Flag a mistake

31 **A polypeptide chain is made of 100 amino acids joined in a row. How many peptide bonds join the amino acids in the chain**

ANSWER

Understand It with Pulse | Flag a mistake

32 **Cellular respiration of 4 glucose molecules uses how many oxygen molecules in total, if each glucose uses 6 oxygen molecules**

ANSWER

Understand It with Pulse | Flag a mistake

33 **A resting heart beats at 75 beats per minute. How many beats does it make in 4 minutes**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **A nerve impulse travels 4 metres at a speed of 40 metres per second. How many seconds does the impulse take, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **A prevention program reduces 4000 cases of a disease by 10 percent. How many cases are prevented**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **Each triglyceride molecule contains 3 fatty acid chains. How many fatty acid chains are in 8 triglyceride molecules in total**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **Photosynthesis to make 4 glucose molecules uses how many carbon dioxide molecules in total, if each glucose needs 6 carbon dioxide molecules**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **Cardiac output equals heart rate times stroke volume. If heart rate is 72 beats per minute and stroke volume is 75 millilitres per beat, what is the cardiac output in millilitres per minute**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **A white blood cell count rises from 150 units by 10 percent. What is the new count in units**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **In a town of 5000 people, 8 percent have asthma. How many people in the town have asthma**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **A concentration gradient exists when a substance is**

A equally spread everywhere

B absent

C more concentrated in one area than another

D solid only

Understand It with Pulse | Flag a mistake

42 **The Krebs cycle takes place in the**

A chloroplast

B cytoplasm only

C nucleus

D mitochondrion

Understand It with Pulse | Flag a mistake

43 **The kidneys filter blood and produce**

- A bile
- B sweat only
- C lymph
- D urine

Understand It with Pulse | Flag a mistake

44 **The basic unit of the nervous system is the**

- A neuron
- B nephron
- C alveolus
- D antibody

Understand It with Pulse | Flag a mistake

45 **Smoking damages the lungs and increases the risk of**

A diabetes type 1

B kidney stones only

C anaemia only

D lung disease

Understand It with Pulse | Flag a mistake

46 **The movement of water across a selectively permeable membrane is called**

A diffusion only

B osmosis

C active transport

D phagocytosis

Understand It with Pulse | Flag a mistake

47 **Water for photosynthesis is taken up by the**

A roots

B leaves only

C stomata

D flowers

Understand It with Pulse | Flag a mistake

48 **Veins carry blood**

A away from the heart

B only from the lungs

C only in arteries

D toward the heart

Understand It with Pulse | Flag a mistake

49 **Thyroxine is produced by the**

A pancreas

B thyroid gland

C adrenal gland

D pituitary gland

Understand It with Pulse | Flag a mistake

50 **In a town of 40000 people, 3 percent have asthma. How many people in the town have asthma**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	5.00	**18.**	A	**35.**	400
2.	4	**19.**	D	**36.**	24
3.	4900	**20.**	C	**37.**	24
4.	0.006	**21.**	24	**38.**	5400
5.	32.00	**22.**	12	**39.**	165.00
6.	B	**23.**	400	**40.**	400
7.	B	**24.**	0.10	**41.**	C
8.	C	**25.**	100	**42.**	D
9.	D	**26.**	49	**43.**	D
10.	A	**27.**	18	**44.**	A
11.	B	**28.**	10000	**45.**	D
12.	C	**29.**	0.20	**46.**	B
13.	D	**30.**	50	**47.**	A
14.	A	**31.**	99	**48.**	D
15.	B	**32.**	24	**49.**	B
16.	C	**33.**	300	**50.**	1200
17.	A	**34.**	0.10		

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