NOVA SCOTIA SCIENCE 10 · 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 **The term for an organism that eats other organisms for energy is**

- A A food chain
- B A trophic level
- C A consumer
- D A biotic factor

Understand It with Pulse | Flag a mistake

2 **A reactant means**

- A the rule that mass is not created or lost in a reaction
- B a starting substance in a chemical reaction
- C a reaction where one substance breaks into simpler substances
- D a reaction that releases heat to its surroundings

Understand It with Pulse | Flag a mistake

3 **An object travels 240 metres in 4 seconds. Its speed in metres per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The troposphere means**

A the force of air pushing on a surface

B the lowest layer of the atmosphere where weather happens

C rising air that often brings cloud and precipitation

D the boundary where warm air rises over cold air

Understand It with Pulse | Flag a mistake

5 **The term for an organism that breaks down dead material and returns nutrients to soil is**

- A A decomposer
- B A food web
- C An abiotic factor
- D A habitat

Understand It with Pulse | Flag a mistake

6 **The term for the rule that mass is not created or lost in a reaction is**

- A Conservation of mass
- B A decomposition reaction
- C An exothermic reaction
- D An acid

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7 **An object travels 200 metres in 8 seconds. Its speed in metres per second is**

ANSWER _____

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8 **Air pressure means**

A rising air that often brings cloud and precipitation

B the force of air pushing on a surface

C the boundary where warm air rises over cold air

D water that falls from clouds as rain snow sleet or hail

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9

A food chain means

A a feeding step in a food chain or food web

B a living part of an ecosystem such as a plant or animal

C the role of an organism in its ecosystem

D a single path showing how energy passes from organism to organism

Understand It with Pulse | Flag a mistake

10

A synthesis reaction means

A a reaction where a substance burns in oxygen

B a reaction that absorbs heat from its surroundings

C a substance that feels slippery and turns red litmus blue

D a reaction where two substances join to make one product

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11 **An object moves at 15 metres per second for 8 seconds. The distance in metres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **The term for rising air that often brings cloud and precipitation is**

A A low pressure system

B A warm front

C Precipitation

D Evaporation

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13 **The term for a feeding step in a food chain or food web is**

A A biotic factor

B A niche

C A trophic level

D A community

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14 **The term for a reaction where a substance burns in oxygen is**

A An endothermic reaction

B A base

C A combustion reaction

D A catalyst

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15 **An object moves at 30 metres per second. The time to travel 150 metres in seconds is**

ANSWER

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16 **A cold front means**

A the amount of water vapour in the air

B the movement of water between Earth and air through evaporation condensation and precipitation

C the change of water vapour into liquid droplets

D the boundary where cold air pushes under warm air

Understand It with Pulse | Flag a mistake

17 **An abiotic factor means**

A the place where an organism lives

B a nonliving part of an ecosystem such as water or sunlight

C all members of one species in one area

D a community plus its nonliving surroundings

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18 **An exothermic reaction means**

A a substance that tastes sour and turns blue litmus red

B a reaction that releases heat to its surroundings

C a reaction between an acid and a base that makes salt and water

D a solid that forms in a liquid during a reaction

Understand It with Pulse | Flag a mistake

19 **An object speeds up from 0 metres per second to 12 metres per second in 3 seconds. Its acceleration in metres per second squared is**

ANSWER

Understand It with Pulse | Flag a mistake

20 **Humidity means**

A the movement of water between Earth and air through evaporation condensation and precipitation

B the change of water vapour into liquid droplets

C wind that blows from sea to land during the day

D the amount of water vapour in the air

Understand It with Pulse | Flag a mistake

21 **The term for the place where an organism lives is**

- A A habitat
- B A population
- C An ecosystem
- D Carrying capacity

Understand It with Pulse | Flag a mistake

22 **The term for a substance that tastes sour and turns blue litmus red is**

- A An acid
- B Neutralization
- C A precipitate
- D A balanced equation

Understand It with Pulse | Flag a mistake

23 **An object starts at 10 metres per second and accelerates at 3 metres per second squared for 4 seconds. Its final speed in metres per second is**

ANSWER

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24 **The term for the movement of water between Earth and air through evaporation condensation and precipitation is**

A Condensation

B A sea breeze

C The water cycle

D The greenhouse effect

Understand It with Pulse | Flag a mistake

25 **The term for all members of one species in one area is**

- A A population
- B An ecosystem
- C Carrying capacity
- D Succession

Understand It with Pulse | Flag a mistake

26 **The term for a reaction between an acid and a base that makes salt and water is**

- A Neutralization
- B A precipitate
- C A balanced equation
- D Oxidation

Understand It with Pulse | Flag a mistake

27 **An object travels 500 metres in 10 seconds. Its speed in metres per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **Evaporation means**

A the turning of moving air caused by Earth rotation

B the change of liquid water into water vapour

C wind that blows from land to sea at night

D a line on a weather map joining places of equal air pressure

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29

A community means

A the variety of living things in an area

B a condition that limits the size of a population

C a relationship where both species benefit

D all populations living together in one area

Understand It with Pulse | Flag a mistake

30

A catalyst means

A a scale from 0 to 14 that measures how acidic or basic a solution is

B a number in front of a formula showing how many units react

C the slow chemical breakdown of a metal such as rusting iron

D a substance that speeds up a reaction without being used up

Understand It with Pulse | Flag a mistake

31 **An object speeds up from 20 metres per second to 40 metres per second in 5 seconds. Its acceleration in metres per second squared is**

ANSWER

Understand It with Pulse | Flag a mistake

32 **The Coriolis effect means**

A the turning of moving air caused by Earth rotation

B wind that blows from land to sea at night

C a line on a weather map joining places of equal air pressure

D a cloud that forms at ground level

Understand It with Pulse | Flag a mistake

33 **The term for the variety of living things in an area is**

A A limiting factor

B Biodiversity

C Mutualism

D Competition

Understand It with Pulse | Flag a mistake

34 **The term for a scale from 0 to 14 that measures how acidic or basic a solution is**

A A coefficient

B The pH scale

C Corrosion

D A product

Understand It with Pulse | Flag a mistake

35 **Displacement differs from distance because displacement includes**

A speed only

B time only

C direction

D mass only

Understand It with Pulse | Flag a mistake

36 **The term for wind that blows from land to sea at night is**

A An isobar

B Fog

C Weather

D A land breeze

Understand It with Pulse | Flag a mistake

37 **Carrying capacity means**

A the largest population an area can support over time

B the gradual change of species in an area over time

C a relationship where one species benefits and the other is harmed

D the process plants use to make food from sunlight water and carbon dioxide

Understand It with Pulse | Flag a mistake

38 **A balanced equation means**

A an equation with the same number of each atom on both sides

B a process where a substance loses electrons or gains oxygen

C a starting substance in a chemical reaction

D the rule that mass is not created or lost in a reaction

Understand It with Pulse | Flag a mistake

39

The SI unit for speed is

A kilometres only

B metres per second

C seconds only

D metres only

Understand It with Pulse | Flag a mistake

40

The greenhouse effect means

A a tall storm cloud that can bring thunder and heavy rain

B the long term pattern of weather in a place

C the trapping of heat by gases in the atmosphere

D a gas in the stratosphere that absorbs harmful ultraviolet light

Understand It with Pulse | Flag a mistake

41 **The term for the gradual change of species in an area over time is**

A Parasitism

B Photosynthesis

C A producer

D Succession

Understand It with Pulse | Flag a mistake

42 **The term for a process where a substance loses electrons or gains oxygen is**

A A reactant

B Conservation of mass

C A decomposition reaction

D Oxidation

Understand It with Pulse | Flag a mistake

43 **An object travels 360 metres in 12 seconds. Its speed in metres per second is**

ANSWER

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44 **A cumulonimbus cloud means**

A the long term pattern of weather in a place

B a gas in the stratosphere that absorbs harmful ultraviolet light

C a tall storm cloud that can bring thunder and heavy rain

D the layer above the troposphere that holds the ozone layer

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45

Mutualism means

A a struggle between organisms for the same resource

B a non native species that harms a new ecosystem

C a relationship where both species benefit

D an organism that eats other organisms for energy

Understand It with Pulse | Flag a mistake

46

Corrosion means

A a new substance formed in a chemical reaction

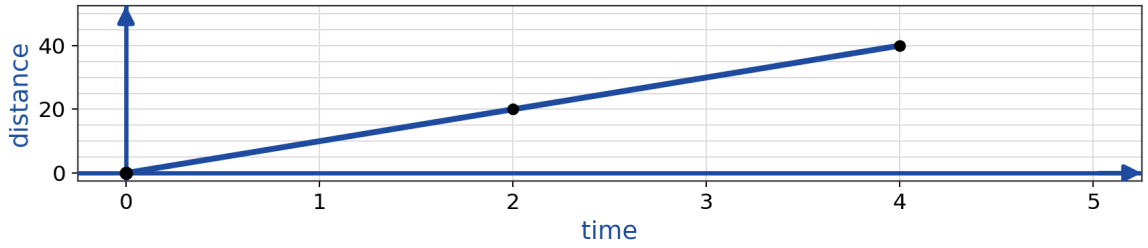
B a reaction where two substances join to make one product

C the slow chemical breakdown of a metal such as rusting iron

D a reaction where a substance burns in oxygen

Understand It with Pulse | Flag a mistake

47 **The distance time graph shows a straight line from the origin. The motion is best described as**



- **A** standing still
- **B** speeding up steadily
- **C** steady speed
- **D** slowing down

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48 **The term for the long term pattern of weather in a place is**

- **A** Ozone
- **B** Climate
- **C** The stratosphere
- **D** A high pressure system

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49 **The term for a struggle between organisms for the same resource is**

A An invasive species

B Competition

C A consumer

D A food chain

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50 **The molar mass of sodium chloride N a C l in grams per mole using N a = 23 and C l = 35.5 is**

ANSWER _____

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ANSWER KEY

1. C
2. B
3. 60
4. B
5. A
6. A
7. 25
8. B
9. D
10. D
11. 120
12. A
13. C
14. C
15. 5
16. D
17. B
18. B
19. 4
20. D
21. A
22. A
23. 22
24. C
25. A
26. A
27. 50
28. B
29. D
30. D
31. 4
32. A
33. B
34. B
35. C
36. D
37. A
38. A
39. B
40. C
41. D
42. D
43. 30
44. C
45. C
46. C
47. C
48. B
49. B
50. 58.5

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