SASKATCHEWAN 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 **Which gas is the main human caused greenhouse gas from burning fossil fuels**

- A oxygen
- B carbon dioxide
- C nitrogen
- D argon

Understand It with Pulse | Flag a mistake

2 **In a balanced equation, the total mass of reactants compared with products is**

A greater

B equal

C smaller

D zero

Understand It with Pulse | Flag a mistake

3 **An object starts at 2 m per second and accelerates at 3 m per second squared for 4 s. The displacement, in metres, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A force of 20 N moves an object 15 m. The work done, in joules, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **The movement of carbon between the atmosphere, oceans, soil and living things is called**

A ecosystem

B food web

C carbon cycle

D trophic level

Understand It with Pulse | Flag a mistake

6 **A starting substance in a chemical reaction is called**

A synthesis reaction

B decomposition reaction

C reactant

D single replacement reaction

Understand It with Pulse | Flag a mistake

7 **A cyclist covers 120 m in 20 s. The average speed, in metres per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **An attractive force between masses is called**

A Newton first law

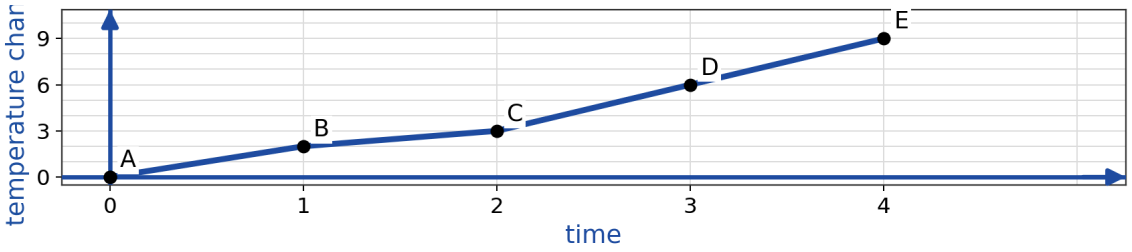
B Newton second law

C Newton third law

D gravity

Understand It with Pulse | Flag a mistake

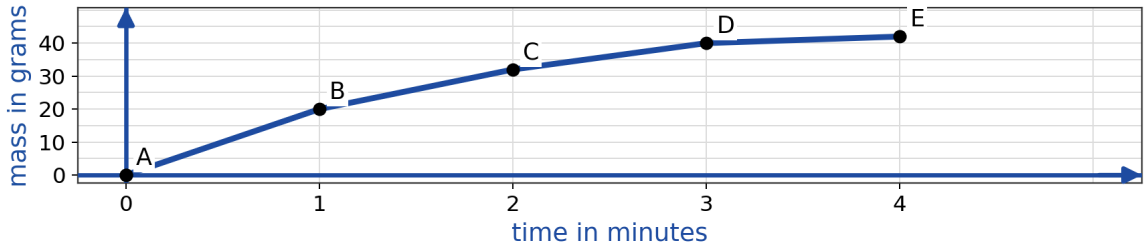
9 **The graph shows global temperature change over time. The trend shown is**



- **A** warming over time
- **B** cooling over time
- **C** no change
- **D** warming then cooling to below the start

Understand It with Pulse **Flag a mistake**

10 **The graph shows a reaction slowing down over time. The curve levels off because**



- **A** a reactant runs out
- **B** temperature keeps rising
- **C** a catalyst is added
- **D** mass is created

Understand It with Pulse | Flag a mistake

11 **A quantity with both size and direction is called**

- **A** uniform motion
- **B** displacement
- **C** velocity
- **D** vector

Understand It with Pulse | Flag a mistake

12 **Seat belts reduce injury mainly by**

A increasing the time over which a person stops

B increasing speed

C removing friction

D adding mass

Understand It with Pulse | Flag a mistake

13 **Out of 120 students surveyed, 30 chose the same answer. The percent who chose it is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A substance has molar mass 40 g per mole. The amount in 20 g of it, in moles, is ____**

ANSWER _____

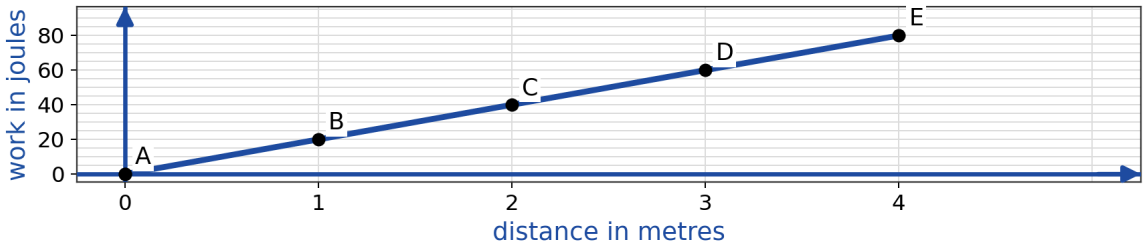
Understand It with Pulse | Flag a mistake

15 **A skater covers 80 m in 16 s. The average speed, in metres per second, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **The graph shows work done against distance at a constant force. The work at 4 m, in joules, is _____**



ANSWER _____

Understand It with Pulse | Flag a mistake

17 **Out of 300 students surveyed, 90 chose the same answer. The percent who chose it is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A substance has molar mass 18 g per mole. The mass of 3 moles of it, in grams, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **Displacement divided by time, with direction is called**

A acceleration

B scalar

C vector

D velocity

Understand It with Pulse | Flag a mistake

20 The tendency of an object to resist a change in its motion is called

- A gravity
- B net force
- C Newton first law
- D inertia

Understand It with Pulse | Flag a mistake

21 A population starts at 50 and multiplies by 2 each generation for 3 generations. The final population is ____

ANSWER _____

Understand It with Pulse | Flag a mistake

22 A substance has molar mass 44 g per mole. The mass of 2 moles of it, in grams, is ____

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **On a displacement time graph, the slope of the line gives**

A acceleration

B velocity

C distance

D time

Understand It with Pulse | Flag a mistake

24 **A force of 50 N moves an object 4 m. The work done, in joules, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **An organism that makes its own food by photosynthesis is called**

A producer

B decomposer

C carrying capacity

D limiting factor

Understand It with Pulse | Flag a mistake

26 **A reaction in which two compounds exchange partners is called**

A catalyst

B exothermic reaction

C double replacement reaction

D chemical reaction

Understand It with Pulse | Flag a mistake

27 **An object speeds up from 5 m per second to 20 m per second in 3 s. The acceleration, in metres per second squared, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **A force of 30 N moves an object 10 m. The work done, in joules, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **A bacterial culture starts with 40 cells and doubles 3 times. The final number of cells is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **A substance has molar mass 58.5 g per mole. The amount in 117 g of it, in moles, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **An object speeds up from 10 m per second to 30 m per second in 5 s. The acceleration, in metres per second squared, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **A force of 25 N moves an object 8 m. The work done, in joules, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **The largest population an environment can support over time is called**

A carrying capacity

B climate

C weather

D adaptation

Understand It with Pulse | Flag a mistake

34 **A reaction that releases energy to its surroundings is called**

A exothermic reaction

B reactant

C product

D synthesis reaction

Understand It with Pulse | Flag a mistake

35 **An object speeds up from 4 m per second to 16 m per second in 4 s. The acceleration, in metres per second squared, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **A force of 15 N moves an object 20 m. The work done, in joules, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **A population starts at 10 and multiplies by 2 each generation for 5 generations. The final population is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **A substance has molar mass 18 g per mole. The amount in 54 g of it, in moles, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **An object starts at 4 m per second and accelerates at 3 m per second squared for 2 s. The displacement, in metres, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **A mass of 4 kg accelerates at 10 m per second squared. The net force, in newtons, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **A sudden drop in a prey population most likely causes its predator population to**

A increase steadily

B stay exactly the same

C decrease

D become producers

Understand It with Pulse | Flag a mistake

42 **A sample of mass 18 g contains 2 g of one element. The percent by mass of that element is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **Which quantity is a scalar**

A velocity

B displacement

C acceleration

D speed

Understand It with Pulse | Flag a mistake

44 **A mass of 15 kg accelerates at 3 m per second squared. The net force, in newtons, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **Out of 140 students surveyed, 35 chose the same answer. The percent who chose it is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **A substance has molar mass 100 g per mole. The mass of 2 moles of it, in grams, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **An object speeds up from 8 m per second to 24 m per second in 8 s. The acceleration, in metres per second squared, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **A mass of 9 kg accelerates at 4 m per second squared. The net force, in newtons, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **Out of 210 students surveyed, 84 chose the same answer. The percent who chose it is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **A sample has mass 50 g and volume 25 mL. Its density, in grams per mL, is _____**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	B	**18.**	54	**35.**	3
2.	B	**19.**	D	**36.**	300
3.	32	**20.**	D	**37.**	320
4.	300	**21.**	400	**38.**	3
5.	C	**22.**	88	**39.**	14
6.	C	**23.**	B	**40.**	40
7.	6	**24.**	200	**41.**	C
8.	D	**25.**	A	**42.**	11.1111
9.	A	**26.**	C	**43.**	D
10.	A	**27.**	5	**44.**	45
11.	D	**28.**	300	**45.**	25
12.	A	**29.**	320	**46.**	200
13.	25	**30.**	2	**47.**	2
14.	0.5	**31.**	4	**48.**	36
15.	5	**32.**	200	**49.**	40
16.	80	**33.**	A	**50.**	2
17.	30	**34.**	A		

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