FINAL EXAM - PRACTICE TEST | NEW BRUNSWICK SCIENCE 10 (SCIENCE FOR SUSTAINABLE SOCIETIES) · 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 **A force of 20 newtons moves an object 3 metres. The work done in joules is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A current of 3 amperes flows for 4 seconds. The charge transferred in coulombs is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **An atom has 8 protons and 8 neutrons. Its mass number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

A Town Cuts Waste

Use this reading for question 4.

The town of Sussex set a goal to cut household waste in half within three years. At first, many residents were unsure how to sort compost, recycling, and garbage. The town sent a clear guide to every home and placed labelled bins at the community centre.

Within a year, the amount of garbage sent to landfill fell by a third, and the compost program grew quickly. Local schools joined in, and students tracked their classroom waste each week. Some residents still struggled with sorting, so volunteers visited homes to answer questions.

By the third year, the town had met its goal. The council credited clear information, steady habits, and neighbours helping neighbours, rather than any single new technology.

4 **The passage shows that the compost program grew after the town sent a**

- **A** bill to every home
- **B** clear guide to every home
- **C** warning to every home
- **D** new tax notice

Understand It with Pulse **Flag a mistake**

5 **Work of 300 joules done in 15 seconds gives a power in watts of**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A current of 2 amperes through a resistance of 6 ohms gives a voltage in volts of**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A neutral atom with 6 protons has how many electrons**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **An Earth system includes the atmosphere hydrosphere lithosphere and**

A biosphere

B technosphere only

C magnetosphere only

D exosphere only

Understand It with Pulse | Flag a mistake

9 **A mass of 5 kilograms at a height of 4 metres has gravitational potential energy in joules using g = 10 of**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A device uses 1200 watts for 2 hours. The energy used in watt hours is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A sample decays through 2 half lives. The fraction remaining as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A nonrenewable resource is used faster than it is**

A found

B sold

C measured

D replaced

Understand It with Pulse | Flag a mistake

13 **A mass of 3 kilograms moving at 4 metres per second has kinetic energy in joules of**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Electric current is the flow of**

A charge

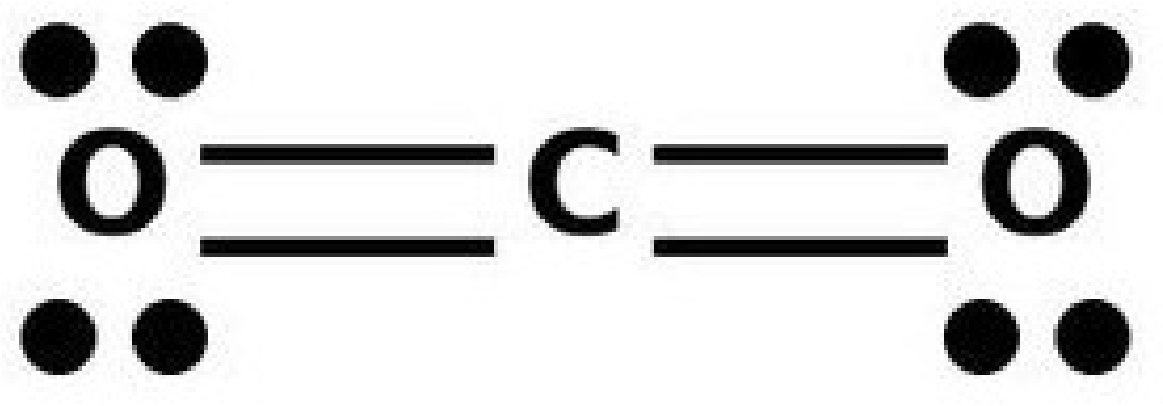
B light

C heat only

D sound

Understand It with Pulse | Flag a mistake

15 **The diagram shows carbon dioxide with carbon in the centre and oxygen on each side. Its shape is**



A bent

B linear

C tetrahedral

D pyramidal

Understand It with Pulse | Flag a mistake

16 **A safety symbol for a corrosive chemical warns that it can**

A catch fire only

B explode only

C damage skin or materials

D glow in the dark

Understand It with Pulse | Flag a mistake

17 **Doubling the speed of an object multiplies its kinetic energy by**

A 2

B 8

C 4

D 1

Understand It with Pulse | Flag a mistake

18 **In a series circuit the current is the**

A greatest at the battery only

B zero at the end

C different in each branch

D same everywhere

Understand It with Pulse | Flag a mistake

19 **Nuclear fission splits a heavy nucleus into**

A larger nuclei

B smaller nuclei

C electrons only

D photons only

Understand It with Pulse | Flag a mistake

20 **Climate change is driven mainly by increased greenhouse gases from human**

A activities

B tides

C volcanoes only

D seasons

Understand It with Pulse | Flag a mistake

21 **Gravitational potential energy depends on mass height and**

A gravity

B speed

C colour

D temperature

Understand It with Pulse | Flag a mistake

22 **Like charges do what to each other**

A repel

B attract

C cancel

D ignore

Understand It with Pulse | Flag a mistake

23 **Beta radiation is a stream of fast**

A electrons

B helium nuclei

C protons

D photons

Understand It with Pulse | Flag a mistake

24 **Protecting a watershed helps keep drinking water**

A salty

B clean

C warm

D cloudy

Understand It with Pulse | Flag a mistake

25 **One watt equals one joule per**

A metre

B kilogram

C second

D newton

Understand It with Pulse | Flag a mistake

26 **Which material would be the best choice for the handle of a tool used to work on live electrical wires?**

- A Copper
- B Aluminium
- C Rubber
- D Steel

Understand It with Pulse | Flag a mistake

27 **The atomic number of an element equals its number of**

- A neutrons
- B electrons plus neutrons
- C mass number
- D protons

Understand It with Pulse | Flag a mistake

28 **Contemporary chemistry in daily life includes the chemistry of materials such as**

A plastics and medicines

B rocks only

C stars only

D tides only

Understand It with Pulse | Flag a mistake

29 **The joule is the unit of work and**

A power

B force

C speed

D energy

Understand It with Pulse | Flag a mistake

30 **Power in watts equals voltage times**

A resistance

B current

C charge

D time

Understand It with Pulse | Flag a mistake

31 **An atom has 12 protons and 12 neutrons. Its mass number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **The graph shows a town waste total falling from 80 tonnes to 50 tonnes. The decrease in tonnes is**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **A force of 30 newtons moves an object 2 metres. The work done in joules is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **A voltage of 9 volts across a resistance of 3 ohms gives a current in amperes of**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **A neutral atom with 12 protons has how many electrons**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **A sustainable community balances environmental social and**

A military needs

B space needs

C economic needs

D artistic needs only

Understand It with Pulse | Flag a mistake

37 **A mass of 5 kilograms moving at 6 metres per second has kinetic energy in joules of**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **A device uses 600 watts for 3 hours. The energy used in watt hours is**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **Radiation can be blocked by shielding because shielding**

A absorbs or stops the radiation

B speeds it up

C creates more radiation

D changes its colour

Understand It with Pulse | Flag a mistake

40 **In a lab a broken glass container should be cleaned up with care to avoid**

A noise

B cuts

C smells

D stains only

Understand It with Pulse | Flag a mistake

41 **Power in watts equals work in joules divided by time in**

A metres

B seconds

C kilograms

D newtons

Understand It with Pulse | Flag a mistake

42 **Voltage is measured in**

A amperes

B volts

C ohms

D watts

Understand It with Pulse | Flag a mistake

43 **An ionic bond forms when electrons are**

A transferred

B shared equally

C destroyed

D hidden

Understand It with Pulse | Flag a mistake

44 **Wetlands help control floods by storing**

A sand

B water

C heat

D light

Understand It with Pulse | Flag a mistake

45

Energy of motion is called

A kinetic energy

B potential energy

C chemical energy

D nuclear energy

Understand It with Pulse | Flag a mistake

46

Adding a branch in parallel decreases total

A resistance

B voltage

C charge

D power

Understand It with Pulse | Flag a mistake

47 **Radioactive decay changes one element into another when the nucleus emits**

A light only

B heat only

C sound

D radiation

Understand It with Pulse | Flag a mistake

48 **Energy conservation at home includes turning off lights and using efficient**

A appliances

B windows only

C furniture

D paint

Understand It with Pulse | Flag a mistake

49

A stretched elastic band stores

A kinetic energy

B thermal energy

C sound energy

D elastic potential energy

Understand It with Pulse | Flag a mistake

50

A battery converts chemical energy into

A light only

B sound only

C heat only

D electrical energy

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	60	**18.**	D	**35.**	12
2.	12	**19.**	B	**36.**	C
3.	16	**20.**	A	**37.**	90
4.	B	**21.**	A	**38.**	1800
5.	20	**22.**	A	**39.**	A
6.	12	**23.**	A	**40.**	B
7.	6	**24.**	B	**41.**	B
8.	A	**25.**	C	**42.**	B
9.	200	**26.**	C	**43.**	A
10.	2400	**27.**	D	**44.**	B
11.	0.25	**28.**	A	**45.**	A
12.	D	**29.**	D	**46.**	A
13.	24	**30.**	B	**47.**	D
14.	A	**31.**	24	**48.**	A
15.	B	**32.**	30	**49.**	D
16.	C	**33.**	60	**50.**	D
17.	C	**34.**	3		

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