Technological World and the Environment — Practice Test

Quebec Environmental Science and Technology, Secondary IV • 25 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 caliper shows a main scale reading of 15 millimetres and a vernier reading of 3 tenths of a millimetre. The total reading, in tenths of a millimetre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A pump part has a nominal length of 90 millimetres and a dimensional tolerance of 4 millimetres. Its lower limit, in millimetres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A pump part has a nominal length of 90 millimetres and a dimensional tolerance of 4 millimetres. Its upper limit, in millimetres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A treatment plant receives wastewater at 400 milligrams per litre of pollutant and discharges at 40 milligrams per litre. The percent removed is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A turbine gear has a driver with 40 teeth turning at 200 revolutions per minute and a driven gear with 80 teeth. The output speed, in revolutions per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A condenser in a circuit is a component that can**

A store water

B store heat

C store light

D store electric charge

Understand It with Pulse | Flag a mistake

7 **A guiding control directs the**

A movement of a part

B colour of a part

C mass of a part

D temperature of a part

Understand It with Pulse | Flag a mistake

8 **A multiview orthogonal projection used for assembly is called an**

A assembly drawing

B exploded view

C sketch

D photograph

Understand It with Pulse | Flag a mistake

9 **A pushbutton and a toggle are examples of typical**

- A power supplies
- B control functions
- C materials
- D measurements

Understand It with Pulse | Flag a mistake

10 **A screw gear system, cams and a rack and pinion drive transform**

- A heat
- B light
- C electricity
- D motion

Understand It with Pulse | Flag a mistake

11 **Ceramics cover a wide range of materials used in construction, consumer goods and**

A food production

B wind measurement

C water storage

D electrotechnology

Understand It with Pulse | Flag a mistake

12 **Characteristics of linking describe how mechanical parts are**

A coloured together

B heated together

C joined together

D weighed together

Understand It with Pulse | Flag a mistake

13 **Composites are useful because they combine strong mechanical properties with**

A low density

B high density

C high cost

D low strength

Understand It with Pulse | Flag a mistake

14 **Conduction, insulation and protection are functions in an electrical system that control the flow of**

A current

B water

C air

D light

Understand It with Pulse | Flag a mistake

15 **Constraints such as deflection and shearing must be considered when choosing a**

- **A** material
- **B** colour
- **C** shape only
- **D** brand only

Understand It with Pulse | Flag a mistake

16 **A caliper shows a main scale reading of 25 millimetres and a vernier reading of 8 tenths of a millimetre. The total reading, in tenths of a millimetre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A pump part has a nominal length of 70 millimetres and a dimensional tolerance of 6 millimetres. Its lower limit, in millimetres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A pump part has a nominal length of 70 millimetres and a dimensional tolerance of 6 millimetres. Its upper limit, in millimetres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A treatment plant receives wastewater at 250 milligrams per litre of pollutant and discharges at 50 milligrams per litre. The percent removed is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A turbine gear has a driver with 20 teeth turning at 160 revolutions per minute and a driven gear with 80 teeth. The output speed, in revolutions per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A caliper shows a main scale reading of 10 millimetres and a vernier reading of 7 tenths of a millimetre. The total reading, in tenths of a millimetre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A pump part has a nominal length of 55 millimetres and a dimensional tolerance of 5 millimetres. Its lower limit, in millimetres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A pump part has a nominal length of 55 millimetres and a dimensional tolerance of 5 millimetres. Its upper limit, in millimetres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A treatment plant receives wastewater at 180 milligrams per litre of pollutant and discharges at 18 milligrams per litre. The percent removed is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A turbine gear has a driver with 60 teeth turning at 240 revolutions per minute and a driven gear with 120 teeth. The output speed, in revolutions per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	153	**10.**	D	**19.**	80
2.	86	**11.**	D	**20.**	40
3.	94	**12.**	C	**21.**	107
4.	90	**13.**	A	**22.**	50
5.	100	**14.**	A	**23.**	60
6.	D	**15.**	A	**24.**	90
7.	A	**16.**	258	**25.**	120
8.	A	**17.**	64		
9.	B	**18.**	76		

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