QUEBEC SCIENCE AND TECHNOLOGY, SECONDARY IV · UNIT E

Technological World - Mechanical Engineering — Practice Test

Quebec Science and Technology, Secondary IV • 10 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 screw with pitch 4 millimetres per turn is turned 3 times. Its advance, in millimetres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A sprocket wheel and chain system is used where a belt would**

A. melt

B. stretch forever

C. conduct

D. slip

Understand It with Pulse | Flag a mistake

3 **A two stage gear system multiplies speed by 2 then by 3. Its total speed multiplication factor is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A worm gear system gives a large speed reduction and the output shaft is at**

A right angles to the input

B the same angle as input

C no angle

D a random angle

Understand It with Pulse | Flag a mistake

5 **Adhesion between parts helps them stay**

- A apart
- B hot
- C wet
- D together

Understand It with Pulse | Flag a mistake

6 **An eccentric is a disc mounted off centre that produces**

- A no motion
- B melting
- C electricity
- D back and forth motion

Understand It with Pulse | Flag a mistake

7 **Friction gears transmit motion by contact between**

A magnets

B rough surfaces

C wires

D liquids

Understand It with Pulse | Flag a mistake

8 **Linking of mechanical parts by a hinge allows**

A no motion at all

B rotation about one axis

C free sliding only

D melting

Understand It with Pulse | Flag a mistake

9 **The degree of freedom of a part linked by a hinge is**

A no motion

B six motions

C one rotation

D melting

Understand It with Pulse | Flag a mistake

10 **Two gears in mesh rotate in**

A opposite directions

B the same direction

C no direction

D random directions

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	12	**5.**	D	**9.**	C
2.	D	**6.**	D	**10.**	A
3.	6	**7.**	B		
4.	A	**8.**	B		

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