QUEBEC APPLIED SCIENCE AND TECHNOLOGY, SECONDARY IV · UNIT E

# Technological World - Motion Transmission and Transformation Systems — Practice Test

**Quebec Applied 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 worm gear reduces speed by a factor of 20. An input of 200 revolutions per minute gives an output, in revolutions per minute, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

**2** **An eccentric disc rotates about a point that is not its**

A. edge

B. colour

C. weight

D. centre

Understand It with Pulse | Flag a mistake

3 **An open belt between two pulleys keeps the direction of**

- A rotation
- B colour
- C heat
- D sound

Understand It with Pulse | Flag a mistake

4 **Connecting rods and cranks change rotation into the back and forth motion of a**

- A piston
- B lens
- C battery
- D magnet

Understand It with Pulse | Flag a mistake

5 **Friction gears transmit motion by friction between their**

- A axles only
- B rims
- C paints
- D wires

Understand It with Pulse | Flag a mistake

6 **In a motion transformation system the type of motion at the output differs from the type at the**

- A colour
- B price
- C input
- D weight

Understand It with Pulse | Flag a mistake

7 **Motion transmission by gears needs the teeth to mesh without**

A colouring

B heating

C weighing

D jamming

Understand It with Pulse | Flag a mistake

8 **Pulleys and a belt transmit motion between shafts that may be**

A touching only

B melted

C far apart

D frozen

Understand It with Pulse | Flag a mistake

9 **Speed changes in a gear system depend on the ratio of the numbers of**

A colours

B weights

C teeth

D prices

Understand It with Pulse | Flag a mistake

10 **Sprocket wheels and a chain transmit motion without**

A slipping

B turning

C moving

D wearing

Understand It with Pulse | Flag a mistake

## ANSWER KEY

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

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