

## Worksheet: Units and Measurements

NIOS · Class 11 · Physics · 5 questions · 11 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 11

**Q1.** How many significant figures are in 0.005060? [1 mark]

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**Q2.** Find the dimensions of the universal gravitational constant  $G$  from  $F = G \frac{m_1 m_2}{r^2}$ . [2 marks]

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**Q3.** Five time readings are 2.02, 2.04, 1.98, 2.00, 2.01 s. Find the mean absolute error. [3 marks]

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**Q4.** Check whether  $v^2 = u^2 + 2as$  is dimensionally correct. [2 marks]

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**Q5.** The period of a pendulum  $T$  depends on length  $L$  and  $g$ . Derive the relation using dimensional analysis. [3 marks]

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