

## Worksheet: Oscillations

Madhya Pradesh State Board · Class 11 · Physics · 5 questions · 11 marks

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

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

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

**Q1.** A pendulum clock runs slow. Should the pendulum be lengthened or shortened? *[2 marks]*

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**Q2.** What is the difference between damped and forced oscillations? *[2 marks]*

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**Q3.** A particle in SHM has amplitude 5 cm and period 2 s. Find the maximum velocity and acceleration. *[2 marks]*

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**Q4.** At what displacement is the kinetic energy equal to the potential energy in SHM? *[3 marks]*

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**Q5.** A spring of constant 100 N/m carries a 4 kg mass. Find the period. *[2 marks]*

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