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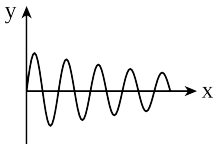
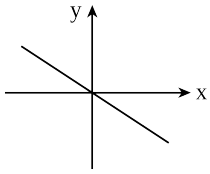
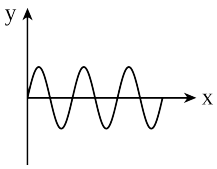
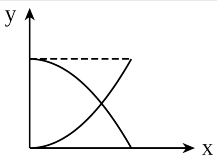
NEET OSCILLATIONS — DAMPED OSCILLATIONS — PYQS

Max. Marks: 8 **Questions:** 2

Section A (MCQ) — 2 questions

Q.1 Match **List-I** with **List-II**

List-I (x-y graphs)	
a.	
b.	
c.	
d.	

List-II (Situations)	
i.	Total mechanical energy is conserved
ii.	Bob of a pendulum is oscillating under negligible air friction
iii.	Restoring force of a spring
iv.	Bob of a pendulum is oscillating along with air friction

Choose the correct answer from the options given below [NEET (UG) 2022 (Phase 2)]

(1) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)

(2) (a)-(iv), (b)-(ii), (c)-(iii), (d)-(i)

(3) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)

(4) (a)-(i), (b)-(iv), (c)-(iii), (d)-(ii)

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Q.2 When an oscillator completes 100 oscillations its amplitude is reduced to $\frac{1}{3}$ of initial value. What will be its amplitude, when it completes 200 oscillations? [AIPMT 2002]

(1) $\frac{1}{8}$ (2) $\frac{2}{3}$ (3) $\frac{1}{6}$ (4) $\frac{1}{9}$

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ANSWER KEY

Ques.	1	2									
Ans.	**3**	**4**									