

21. Sharpness of resonance is

- A. directly proportional to damping force B. inversely proportional to damping force
C. equal to square of damping force D. equal to square of damping force

Answer: Option B

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22. Which one does not work according to resonance?

- A. T.V B. radio
C. microwave oven D. bulb

Answer: Option D

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23. The restoring force acting on simple pendulum is given by

- A. $mg \sin \theta$ B. $mg \cos \theta$
C. $mg \cos \theta$ D. $mg \sin \theta$

Answer: Option B

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24. Phase of SHM describes

- A. displacement only B. direction of motion only
C. both displacement and direction of motion D. neither displacement nor direction of motion

Answer: Option C

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25. Natural frequency of simple pendulum depends upon

- A. its mass B. its length
C. square of its length D. square root of its length

Answer: Option D

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26. Electrical resonance is observed in

- A. radio
- B. microwave oven
- C. both in radio and microwave oven
- D. neither in radio nor in microwave oven

Answer: Option A
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27. Total distance traveled by bob of simple pendulum in one vibration is equal to

- A. amplitude
- B. square of amplitude
- C. 2 x amplitude
- D. 4 x amplitude

Answer: Option D
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28. When K.E energy of SHM is maximum its

- A. P.E is zero
- B. acceleration is zero
- C. restoring force is zero
- D. all P.E acceleration and restoring force are zero

Answer: Option D
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29. In damped harmonic oscillation which one decreases?

- A. amplitude of vibration
- B. energy of vibration
- C. both amplitude and energy
- D. neither amplitude nor energy

Answer: Option C
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30. Forced vibration are known as

- A. simple harmonic vibration
- B. natural vibration
- C. driven harmonic vibration
- D. free vibration

Answer: Option C
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