

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

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

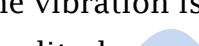
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26. Electrical resonance is observed in

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

Answer: Option A

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

 - A. amplitude
 - B. square of amplitude
 - C. $2 \times$ amplitude
 - D. $4 \times$ amplitude

Answer: Option D

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

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

30. Forced vibration are known as

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

Answer: Option C