31. Mass attached to a spring executes.

A. vibratory motion
B. rotatory motion
C. S.H.M
D. both (a) and (c)

Answer: Option D
:

---

32. At Murree Hills (Assume value of g changes). If we use a simple pendulum as time standard then one second duration will.

A. increase
B. decrease
C. remains same
D. is zero

Answer: Option A
:

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33. The velocity of the mass attached to a spring is maximum at

A. mean position
B. extreme position
C. both (a) and (b)
D. none

Answer: Option A
:

---

34. The projection of the particle moving in a circle with non-uniform speed executes.

A. S.H.M
B. Vibratory motion
C. Both (b) and (d)
D. None S.H.M

Answer: Option C
:

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35. Displacement of the body in S.H.M is equal to amplitude when body is at

A. mean position
B. else where
C. extreme position
D. none

Answer: Option C
:

---

36. For a simple pendulum the restoring force is caused by

A. gravity
B. spring
C. hand
D. all of these

Answer: Option A
:

37. The distance covered by a body in one complete vibration is 20cm. What is the amplitude of body

A. 10 cm
B. 5 cm
C. 15 cm
D. 7.5 cm

Answer: Option B
:

38. A cup of milk is placed in a microwave oven. Tell which statements is false (1) Milk will be heated up only (2) Cup will remain cool (3) Both cup and mild will get hot.

A. both
B. 1
C. 2
D. 3

Answer: Option D
:

39. In case of a simple pendulum the cause of damping is

A. drag force of air
B. gravity
C. tension in string
D. none of these

Answer: Option A
:

40. The energy absorbed by a body is _____ at resonance.

A. maximum as well minimum
B. minimum only
C. maximum only
D. zero

Answer: Option C
: