



PHYSICS

BOOKS S CHAND PHYSICS (HINGLISH)

MODEL TEST PAPER 2

Section A

1. Explain the terms : uniform motion and non-uniform motion with examples.



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2. Explain the term 'amplitude' of a wave. Draw the diagram of a wave and mark its amplitude on it.



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3. State whether the following statements are true or false:

(a) A falling stone also attracts the earth.

(b) The force of gravitation between two

objects depends on the nature of medium between them.

The value of G on the moon is about one-sixth $\left(\frac{1}{6}\right)$ of the value of G on the earth.

(d) The acceleration due to gravity acting on a freely falling body is directly proportional to the mass or the body.

The weight of an object on the earth is about one-sixth of its weight on the moon.



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4. Give one example each in which a force does

(a) positive work

(b) negative work and

(c) zero work.



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5. (a) What is the difference between 'distance travelled' by a body and its 'displacement' ?

Explain with the help of a diagram.

(b) An ant travels a distance of 8 cm from P to

Q and then moves a distance of 6 cm at right angles to PQ. Find its resultant displacement.



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6. Give one example each where:

(a) a force moves a stationary body.

(b) a force stops a moving body

(c) a force changes the speed of a moving body.

(d) a force changes the direction of a moving body

(e) a force changes the shape (and size) of a body.



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Section B

1. One kilogram of ice at $0^{\circ}C$ is mixed with one kilogram of water at $80^{\circ}C$. The final temperature of the mixture is

(Take : specific heat of water

$= 4200 J kg^{-1} K^{-1}$, latent heat of ice

$= 336 kJ / kg^{-1}$)



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2. A bus running at a speed of 18 km/h is stopped in 2.5 seconds by applying brakes. Calculate the retardation produced.



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3. Why are road accidents at high speeds very much worse than accidents at low speeds?



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