

# NCERT/CBSE PHYSICS CLASS 11 textbook

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Solutions/Answers to NCERT/CBSE PHYSICS Class 11(Class XI)textbook

Exercise and Additional exercise

CHAPTER THREE

MOTION IN A STRAIGHT LINE

EXERCISES

(For simplicity in numerical calculations, take  $g = 10 \text{ m s}^{-2}$ )

3.1 In which of the following examples of motion, can the body be considered

approximately a point object:

- (a) a railway carriage moving without jerks between two stations.
- (b) a monkey sitting on top of a man cycling smoothly on a circular track.
- (c) a spinning cricket ball that turns sharply on hitting the ground.
- (d) a tumbling beaker that has slipped off the edge of a table.

Q.1

We can approximate the railway carriage and monkey as points because the distance traveled by them is very large compared to their sizes.

In case of ball and beaker at each instant different points of the body have different velocity.

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