

SECTION C**QUESTION 1**

Describe the motion of vehicle around a curved track. Explain the reason(s) for vehicles overturning and skidding, on level track, as shown in Figure C1.

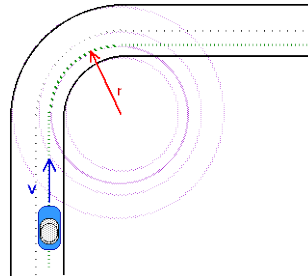


Figure C1: car moving around a flat, curved track

QUESTION 2

The simplest form of periodic motion is simple harmonic motion. Describe the characteristics of such motion using a basic mechanical system of as shown in Figure C2.

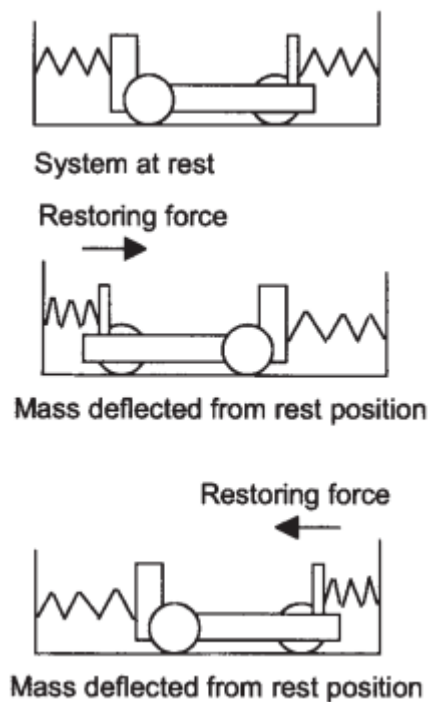


Figure C2. A basic mechanical system

QUESTION 3

- a. Describe the process of internal combustion engine.
- b. Clarify the difference between gasoline engine and diesel engine.

END OF QUESTION PAPER