Riviera International Academy

Assignment-2077

(Baisakh 21, 2077, Sunday)

Class: Nine

Subject: Science

You can take help from E-book and other related sources to do the following questions:

1. Define vector quantity. Why force is called vector quantity?
2. What is uniform speed? Write the differences between velocity and acceleration.
3. What is the condition of zero acceleration? Also write the condition of negative acceleration.
4. Prove that v = u + at.
5. A car starts from rest. How far does it travel in 10s if it is moving with acceleration $2m/s^2$?
6. Define uniform velocity. What happens in acceleration when a body is moving in uniform velocity?
7. Show that $s = ut + \frac{1}{2}at^2$.

Subject – Opt. Mathematics

1. Find the coordinates of the images of the following points under reflection in the X-axis.
   (i) (2, –5)   (ii) (– 9, – 2)   (iii) (– 5, 7)   (iv) (5, 6)
2. Find the coordinates of the images of the following points under reflection in the Y-axis.
   (i) (7, 5)   (ii) (– 6, – 8)   (iii) (– 4, 5)   (iv) (6, – 7)
3. Find the coordinates of the images of the following points under reflection in the line y + 5 = 0.
   (i) (0, 2)   (ii) (7, 2)   (iii) (– 3, 2)   (iv) (9, – 7)
4. Find the coordinates of the images of the following points under reflection in the line x = 2.
   (i) (5, 8)   (ii) (– 9, – 8)   (iii) (– 7, 8)   (iv) (8, – 7)
5. Find the coordinates of the images of the following points under reflection in the line y = x.
   (i) (7, 9)   (ii) (– 7, 8)   (iii) (4, – 6)   (iv) (– 4, – 7)
6. Find the coordinates of the images of the following points under reflection in the line x + y = 0.
   (i) (5, 3)   (ii) (– 7, 9)   (iii) (4, – 8)   (iv) (– 8, – 5)

Subject – HPE

A. **Give short answer to the following questions**.
   1. What is population? Explain the importance of population in the context of Nepali society.
   2. What is environmental education? List down its importance.
   3. Define health according to WHO. What is health education?
   4. Write any four qualities of healthy person.

The End.