

## Riviera International Academy

### Assignment-2077

(Jestha 11, 2077, Sunday)

**Class: Eight**

#### Subject- Science

1. What is vector quantity? Why density is called scalar quantity?
2. What is scalar quantity? Why acceleration is called vector quantity?
3. An object moves 100 m distance in 5 seconds. Find its speed.
4. Find the distance covered by a car in 10 seconds, if it is moving at the speed of 20m/s.
5. If a body travels 500m total distance in 20 seconds. Calculate its average speed.

#### Subject – Opt. Mathematics

If  $A = 0^\circ$ ,  $B = 30^\circ$ ,  $C = 45^\circ$ ,  $D = 60^\circ$  and  $E = 90^\circ$ , prove the followings.

- i)  $\sin(B - A) = \sin B \cdot \cos A - \cos B \cdot \sin A$
- ii)  $\cos(A + B) = \cos A \cdot \cos B - \sin A \cdot \sin B$
- iii)  $\cos(D - B) = \cos D \cdot \cos B + \sin D \cdot \sin B$
- iv)  $\sin 2C = 2 \sin C \cdot \cos C$
- v)  $2 \cos^2 B - 1 = \cos 2B$

**विषय – नेपाली**

ग्रन्थचित्र पाठको पृष्ठ-२६ बाट प्रश्न नं. - ३  
पृष्ठ २६ बाट प्रश्न नं. ४ र पृष्ठ २६ बाट  
नं. प्रश्न नं. ६ को लामो उत्तर देऊ - क' नं.  
को अभ्यास गर्नुहोस।

**The End.**