Riviera International Academy

Assignment-2077

(Jestha 25, 2077, Sunday)

Class: Eight

<u>विषय – नेपाली</u>

शब्दवर्ग : विशेषण : पृष्ठ : ३५
पाठ : ५ निवेदन ; प्रश्न नं. १११२१२
अभ्यास गर्नुहोस् ।

<u>Subject- Opt. Mathematics</u>

Using trigonometrical table, find the value of θ, where θ is the acute angle

i) $\cos\theta = \frac{1}{2}$

ii) $\tan\theta = \frac{1}{\sqrt{3}}$

iii) $2\,\text{cosec}^2\theta = 4$

iv) $2\cos\theta \cdot \tan\theta = 1$

v) $4\sin^2\theta \cdot \cot^2\theta = 3$

<u>Subject- Science</u>

1. A bus has velocity of 20m/s towards east and another bus has velocity of 15m/s in west direction. If they start to move from a point simultaneously, what distance do they cover in 2 minutes? What will be their separation?
2. If a motorbike travels 2.4 km in 5 minutes, find its average velocity.
3. A car starts from rest and gains velocity of 20 m/s in 10 seconds. Find its acceleration.
4. If a truck starts from rest and it has acceleration of 4 m/s2 for 5 seconds, calculate its final velocity. What will be the distance travelled by the truck during the time interval?
5. A car was moving with a uniform velocity. When its brake was applied, it stopped in 5 seconds with retardation of 1 m/s2. Calculate its initial velocity.
6. Two cars are moving with velocities of 70km/hr and 50 km/hr towards east and west direction respectively. Find their relative velocity.

The End.