

# Riviera International Academy

## Assignment-2077

(Jestha 11, 2077, Sunday)

**Class: Nine**

### Subject – English

#### Unit-2

Read the text: Nima's Letter to Her Brother

Ex.1. Enrich your vocabulary.

Ex.2. Read and match.

Ex.3. True and False.

### Subject- Opt. Mathematics

- (a) A' is image of A (3, 5) under reflection in X-axis and A'' is image of A' under quarter turn about origin. Find the single transformation that maps A onto A''.
- (b) A' is image of A (a, b) under reflection in Y-axis and A'' is image of A' under rotation through  $90^\circ$  about origin. Find the single transformation that maps A onto A''.
- (c) A' is image of A (3, 6) under reflection in the line  $y = x$ . A'' is image of A' under rotation through  $90^\circ$  about origin. Find the single transformation that maps A onto A''.
- (d) A' is image of A (a, b) under reflection in Y-axis and A'' is image of A' under reflection in X-axis. Find the single transformation that maps A onto A''.

### Subject- Science

1. An electric fan continues in its motion even after the switch is put off, why?
2. State Newton's first law of motion and write down any three examples to justify it.
3. A train is moving with the velocity of 45 km/hr. The driver applies brake and the train gets stopped in 6 seconds. Now, calculate retardation as well as distance covered by the train before coming to the rest.
4. A car starting from rest attains a velocity of 90 km/hr in 10 second. Now, calculate acceleration as well as distance covered by the car.
5. Dust particles fall down when a carpet or a piece of cloth is beaten by a stick, why?

**The End.**