

**Riviera International Academy**

**Assignment-2077**

**(Ashad 11, 2077, Thursday)**

**Class: Nine**

**Subject – Social Studies**

1. What is meant by literacy? How is literate person different from illiterate one?
2. Only reading, writing and mathematical calculation cannot denote exact literacy. Do you agree? Write your opinion.

**Subject- Opt. Mathematics**

If  $P(3, -4)$  is a given point. Find the image of point  $P$  under the following enlargements.

a.  $E\left[M(3, 4), \frac{1}{2}\right]$

b.  $E[M(1, 1), 2]$

- a. If  $A(2, 3)$  and  $B(-1, 4)$  are two ends of a line segment  $AB$ . Find the images of  $A$  and  $B$  under the enlargement with centre as origin and scale factor 2.
- b. An enlargement  $E[C, 2]$  maps the point  $(3, -1)$  to the point  $(5, 0)$ . Find the co-ordinates of the centre  $C$ .
- c. What is the value of  $a$  and  $b$  when the point  $M(1, a)$  is enlarged with centre as origin and scale factor  $-2$  to form an image  $M'(b, -8)$ ?

**Subject- Science**

1. Define duplet and octet rule.
2. What is the cause of chemical reaction? How do sodium and chlorine combine in the form of  $\text{NaCl}$  molecule?
3. Describe the method of obtaining positive charge by an atom.
4. How can we distinguish the reactivity of an element? Justify with two examples.

**The End.**