

Riviera International Academy

Revision Assignment-2078

Day 4 (Jestha18, 2078, Tuesday)

Class: Ten

Subject - Social Studies

1. Relation between vegetation and climate of Nepal.

Subject- Nepali

१. अर्थ र भावको चार्ट बनाऊ ।
२. सबै भावका उदाहरण आउने ५/५ वाक्य लेख्नुहोस् ।

Subject – Science

1. **Give one example of following type of energy.**
 - i. Potential energy ii. Kinetic energy
 - iii. Heat energy iv. Chemical energy
 - v. Sound energy vi. Light energy
2. **A boy of mass 40kg jumps 25m in 5 seconds. Calculate his power.**
3. **Write two differences between potential energy and kinetic energy.**

Subject – Opt. Maths

There is no homework tomorrow, we are going to discuss the syllabus of grade 10 Opt. Mathematics.

Subject – Computer

- 1) What is digital computer? Classify computers on the basis of size.
- 2) What is hybrid computer? Where are these computers used?
- 3) What is analog computer? Write its features.
- 4) What is super computer? Write its applications.
- 5) What is mainframe computer? Give its examples.

Subject – Mathematics

Complete exercise 8.1.

EXERCISE 8.1

General section

1. Find the H.C.F. of the following expressions.

a) $2x^2(x+2)(x-2)$ and $4x(x+2)(x+3)$

b) $4xy^2(x-1)(x+2)$ and $6x^2y(x-1)(x-4)$

c) $6a^2b^2(a-b)(2a+3b)$ and $9a^3b^3(2a+3b)(a+b)$

d) $12a^2b^3(a-3b)(a+b-2)$ and $16a^3b^2(a+3b)(a+b-2)$

e) $(p+q)(p-q)$, $(p-q)(p^2+pq+q^2)$ and $(p-q)(p+q)(p^2+q^2)$

2. Find the H.C.F. of the following expressions.

a) $a^2 - b^2$ and $a^3 + b^3$

b) $a^2 - 2a$ and $a^4 - 8a$

c) $x^2 - 9$ and $3x + 9$

d) $x^2 - y^2$ and $x^2 + 2xy + y^2$

e) $4x^2 - 100$ and $4x + 20$

f) $4x^3 + 8x^2$ and $5x^3 - 20x$

g) $a^2 - b^2 - 2a + 1$ and $a^2 - ab - a$

h) $x^3 - 8y^3$ and $x^2 + 2xy + 4y^2$

i) $p^4 - 16$ and $p^2 - p - 6$

j) $x^4 + 4y^4$ and $2x^3y + 4xy^3 + 4x^2y^2$

k) $a^3 - 1$ and $a^4 + a^2 + 1$

l) $16x^4 - 4x^2 - 4x - 1$, $8x^3 - 1$

The End.