

Riviera International Academy

Revision Assignment-2078

Day 7 (Jestha 21, 2078, Friday)

Class: Ten

Subject - Social Studies

Read Unit 1 Human Resources Development and its types.

Subject- HPE

Short notes on

Physical aspect of environment

Biological aspect of environment

Subject – English

Poem-Past and Present

Ex .A and B

Subject – Opt. Maths

Function:

1. If $f(x + 3) = 3x + 1$, find $f(x)$.
2. If $f(x + 1) = 2x + 5$, find $f(x)$.
3. If $f(x - 5) = 3x - 7$, find $f(x)$.
4. If $g(x + 13) = 13x + 7$, find $g^{-1}(x)$.
5. If $h(2x - 1) = 5x + 10$, find $h^{-1}(x)$.
6. If $k(3x + 5) = 10x + 1$, find $k^{-1}(x)$.
7. If $p(1 - 20x) = 3x - 5$, find $p^{-1}(x)$.
8. If $g(3 - 12x) = 7 - 4x$, find $g^{-1}(x)$.
9. If $g(x) = 5x - 3$ and $fg(x) = 10x + 7$, then find $g(x)$.
10. If $f(x) = 5x + 7$ and $g(x) = 2x - 3$, find the value of x so that $fof(x) = g^{-1}(x)$.

Subject – Mathematics

Do 1 from given page.

General section

1. Simplify.

a) $\frac{a+1}{a-1} + \frac{a^2-1}{a+1}$

b) $\frac{p+2}{p-2} - \frac{p-2}{p+2}$

c) $\frac{4x}{x^2-1} - \frac{x+1}{x-1}$

d) $\frac{x-4}{x+6} - \frac{x-6}{x+4}$

e) $\frac{a^2+ab+b^2}{a+b} + \frac{a^2-ab+b^2}{a-b}$

f) $\frac{x-2}{x^2-1} - \frac{x+1}{x^2-2x+1}$

g) $\frac{a+2}{a^2+a-2} + \frac{3}{a^2-1}$

h) $\frac{x}{x^2+2xy+y^2} + \frac{y}{x^2-y^2}$

i) $\frac{1}{(x-y)(x-z)} + \frac{1}{(x-z)(y-z)}$

j) $\frac{1}{(a-b)(b-c)} + \frac{1}{(c-b)(a-c)}$

The End.