

STOP 7 25'

Practical test 2011 – Comparison of sediments and hydrographic basins

Equipment:

- Geological map 1 (Friuli Venezia Giulia), with a simplified legenda
- Geological map 2 (Lombardia), with a simplified legenda
- Pebble samples A and B
- Sand samples 1 and 2
- Stereomicroscope
- Dilute hydrochloric acid.

Exercises:

- Two geological maps are provided (1 and 2)
- Two pebble samples (A and B) are provided
- On each map, two sites (X and Y) along the river are shown. Pebbles and sand samples have been collected from these locations.
- In site X pebbles from the Oglio hydrographic basin have been collected.
- In site Y pebbles from the Isonzo hydrographic basin have been collected.

1) Recognize the rock types of the pebbles, by completing the following table (it's possible to use the diluted HCl solution): (1,5 points)

Choose among: limestone, sandstone, dolomite rock, diorite, gneiss/micaschist

Number of pebble	Rock type
A 1	
A 2	
A 3	
B 1	
B 2	
B 3	

2) Match correctly the pebble samples with the geological maps.

(1,25 points)

Pebble sample A	Geological map number
Pebble sample B	Geological map number

3) Observe carefully the two sand samples (1 and 2) at the stereomicroscope.
Which minerals are present in each sample? You could tick more than one option.

(1 point)

	Calcite present	Quartz abundant	Quartz very rare	Biotite present
Sand sample 1				
Sand sample 2				

4) Which of the two sand sample comes from site X and which from site Y ?

(1,25 points)

Sand sample 1	Site
Sand sample 2	Site