**THE ROCK CYCLE *ANSWERS***

**Igneous rocks**

**Metamorphic rocks rocs**

**Sedimentary rocks**

**1**

**6**

**5**

**2**

**3**

**4**

1. In the rock cycle above, six processes are shown. Match the processes that are identical.

Process 1 is identical to ***5***. Process 3 is identical to ***6*** . Process 2 is identical to ***4***.

2. Describe what is happening in:

(a) Process 1. ***Erosion of the igneous rock followed by transport, deposition, sedimentation, compaction and cementation of the fragments***

(b) Process 2. ***Deep burial of the sedimentary rock in which high pressures and temperatures change its structure and minerals.***

(c) Process 3. ***In subduction zones, the metamorphic rock melts back into magma and is then erupted to form igneous rocks***

3. Which of the following rocks could be formed in process 4? Circle your answer(s).

***granite limestone marble schist coal pounamu basalt sandstone***