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BASED ON N.C.E.R.T PATTERN

LESSON : 9 TYPES OF ROCKS AND MINERALS

V. Define the following:

Ans 1. Minerals are substances that are formed naturally in the Earth. **Rocks are made of minerals. Minerals are usually solid, inorganic, have a crystal structure, and form naturally by geological processes.**

Ans 2. An ore is a mineral which has a valuable metal inside it. Ores are usually extracted by being mined. They can sometimes be found on the Earth's surface. Most ores are chemical compounds such as oxides or sulfides.

Ans 3. Fossil fuels are made from decomposing plants and animals. These fuels are found in the Earth's crust and contain carbon and

hydrogen, which can be burned for energy. Coal, oil, and natural gas are examples of fossil fuels. ... Natural gas is usually found in pockets above oil deposits.

VI . Answer the following questions:

Ans 1. Petroleum is a fossil fuel, meaning that it has been created by the decomposition of organic matter over millions of years.

Petroleum is formed when large quantities of dead organisms—primarily zooplankton and algae—underneath sedimentary rock are subjected to intense heat and pressure.

Ans 2. The three main types, or classes, of rock are sedimentary, metamorphic, and igneous and the differences among them have to do with how they are formed. Sedimentary rocks are formed from particles of sand, shells, pebbles, and other fragments of material.

Ans 3. Common sedimentary rocks include sandstone, limestone, and shale. These rocks often start as sediments carried in rivers and deposited in lakes and oceans. When buried, the sediments lose water and become cemented to form rock. Tuffaceous sandstones contain volcanic ash.

Ans 4. Pure marble will be white in colour and marble with impurities like clay and iron oxides will have pink, blue, yellow and black shades. High purity marble of bright white shade is crushed and refined into fine powder and all the impurities are almost removed.

Ans 5. The molten rock that is present beneath the surface of the earth is termed as Magma. The molten liquid that gets erupted out of the surface of the Earth is termed as Lava. Lava is also referred to as Liquid Magma. The temperature of Magma is slightly hotter and ranges from 1300-2400 degrees Fahrenheit.

Ans 6. Common metamorphic rocks include phyllite, schist, gneiss, quartzite and marble. Foliated Metamorphic Rocks: Some kinds of metamorphic rocks -- granite gneiss and biotite schist are two examples -- are strongly banded or foliated.

Ans 7. Limestone and Sandstone Composition: In general, limestone is defined as being composed of calcium carbonate. ... Sandstone is often composed of different elements that make up one large rock or surface like feldspar, mica, lithic fragments, and biogenic debris like shells.
