

TEST No. 2

TOPIC: METAMORPHISM AND CONTINENTAL DRIFT THEORY

SUBJECT: PHYSICAL GEOGRAPHY

Explanation:

Question 1

Answer: (a) 1 only

Explanation: First statement is correct. This the definition of metamorphism
Second statement is wrong because metamorphism can occur in all kind of rocks. Even metamorphosed rocks can be further metamorphose

Question 2

Answer: (d) Neither 1 nor 2

Explanation: Clay ,Shale $\xrightarrow{\text{pressure}}$ Schist
Clay, shale $\xrightarrow{\text{Heat}}$ Slate $\xrightarrow{\text{Heat}}$ Phyllite

Question 3

Answer: b

Explanation: **Some Example of Metamorphism**

Granite $\xrightarrow{\text{pressure}}$ Gneiss

Clay ,Shale $\xrightarrow{\text{pressure}}$ Schist

Sandstone $\xrightarrow{\text{Heat}}$ Quartzite

Clay, shale $\xrightarrow{\text{Heat}}$ Slate $\xrightarrow{\text{Heat}}$ Phyllite

Coal $\xrightarrow{\text{Heat}}$ Anthracite, Graphite

Limestone $\xrightarrow{\text{Heat}}$ Marble

Question 4

Answer: c

Explanation: According to this theory, about 280 million years ago, the entire landmass formed one super continent, called **Pangea**. The entire water mass has been given the name

Panthalasia. First of all it split into two -Northern **Laurasia** and Southern **Gondwanaland**, divided by a shallow sea called Tethys. Afterwards, further division of continents happened.

Question 5

Answer: d

Explanation: first three statements are correct. Fourth statement is wrong because idea of convective current as a driving mechanism came in plate tectonic theory not in continental drift.

Question 6

Answer: b

Explanation: **Objections:**

One of the main objections to Wegner's hypothesis stemmed from his inability to provide a driving mechanism for continental drift. Wegner proposed two possible energy sources for drift.

The Tidal force/influence of the moon was presumed by Wegner to be strong enough to give the continents a westward motion. However, the prominent Physicist Harold Jeffrey's quickly countered with the argument that the tidal friction of the magnitude needed to displace the continents would bring the earth's rotation to a halt in a matter of few years.

Further Wegner proposed that the larger and sturdier continents broke through the oceanic crust, much like icebreakers cut through ice. However no evidence existed to suggest that the ocean floor was weak enough to permit passage of the continents without themselves being appreciably deformed in the process.

Question 7

Answer: d

Explanation: According to this theory, about 280 million years ago, the entire landmass formed one super continent, called **Pangea**. The entire water mass has been given the name **Panthalasia**.

Question 8

Answer: a

Explanation: sima is mantle while sial is crust

Question 9

Answer: a

Explanation: Gravitational force and Earth magnetism does not give any insight into interior of earth.

Question 10

Answer: b

Explanation: statement one is incorrect because The midnight sun occur in summer months not in winter month.