

Class- VII

Sub- Social Science

Class test (Full Marks- 10)

1. The Taj Mahal is made of white marble, a metamorphic rock. Which of the following processes best explains its origin?

- (a) Melting of igneous rocks
- (b) Compaction of sediments
- (c) Crystallization of minerals from lava
- (d) Transformation of limestone under heat and pressure

2. A mining company drills 5 km deep into the Earth in search of minerals. Which layer are they likely exploring?

- (a) Outer core
- (b) Mantle
- (c) Inner core
- (d) Crust

3. In a classroom activity, students are given rock samples to classify. Which of the following characteristics would best help identify an igneous rock?

- (a) Presence of fossils
- (b) Reaction with acid
- (c) Fine layering of sediments
- (d) Grain size and crystalline texture

4. If a volcano erupts and lava flows over a village, which type of rock will most likely be found in that area in the future?

- (a) Intrusive igneous rock
- (b) Sedimentary rock
- (c) Extrusive igneous rock
- (d) Metamorphic rock

5. Assertion (A): Fossils are mainly found in sedimentary rocks.

Reason (R): Sedimentary rocks form under high temperature and pressure, preserving dead organisms.

- (a) Both A and R are correct, and R explains A.
- (b) Both A and R are correct, but R does not explain A.
- (c) A is correct, but R is incorrect.
- (d) A is incorrect, but R is correct.

6. A geologist finds a rock with distinct layers and traces of shell fossils. What process most likely formed it?

- (a) Intense heat and pressure
- (b) Melting and crystallization
- (c) Compression and cementation of sediments
- (d) Rapid cooling of magma

7. Draw a labelled diagram of rock cycle and explain how the rock cycle works. (2+2)