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Olympiads
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CREST Science Olympiad (CSO) **Worksheet** *for* **Class 5**



Topic

Soil and Rocks as Natural Resources



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Worksheet on Soil and Rocks as Natural Resources

1. Match the following.

	Column I		Column II
1.	Horizon O	A.	Layer of small pieces of rocks
2.	Horizon C	B.	Layer where plants grow their roots
3.	Horizon D	C.	Layer rich in organic material and nutrients
4.	Horizon A	D.	Layer of solid rock beneath all other layers

- a. 1:B, 2:A, 3:D, 4:C
- b. 1:C, 2:D, 3:A, 4:B
- c. 1:A, 2:B, 3:C, 4:D
- d. 1:C, 2:A, 3:D, 4:B

2. Consider the two statements given below and choose the correct option:

Statement 1: Subsoil is soft and porous, and rich in organic matter.

Statement 2: Soil is a mixture of both living and non-living components.

- a. Statement 1 is correct and Statement 2 is incorrect.
- b. Statement 1 is incorrect and Statement 2 is correct.
- c. Both statements are correct.
- d. Both statements are incorrect.

3. Metal X is commonly used in electrical wiring. It is obtained from chalcopryite ore. Identify the metal.

- a. Copper
- b. Aluminium
- c. Iron
- d. Gold

4. What action can individuals take to conserve soil in their local communities?

- a. Promoting recycling initiatives
- b. Using chemical fertilisers in gardens
- c. Engaging in sustainable farming practices
- d. Disposing of waste in water bodies

5. Which of the following is not an application of non-metallic minerals?

- a. Making glass
- b. Making pots and pans
- c. Creating ceramics
- d. Manufacturing pencils

Answer Key

1. d -
Horizon O: Layer rich in organic material and nutrients (Humus)
Horizon C: Layer of small pieces of rocks (Regolith)
Horizon D: Layer of solid rock beneath all other layers (Bedrock)
Horizon A: Layer of small pieces of rocks (Topsoil)
2. b - Statement 1 is incorrect because subsoil is not soft and porous like topsoil; it contains larger-sized particles like gravel and rocks.
Statement 2 is correct because the soil is indeed a mixture of both living (like organisms) and non-living (like minerals) components.
3. a - The metal obtained from chalcopryite ore, which is commonly used in electrical wiring, is copper.
4. c - Engaging in sustainable farming practices, such as using organic fertilisers, planting cover crops, and implementing erosion control measures, can help conserve soil.
5. b - Making pots and pans typically involves the use of metallic materials, such as stainless steel or cast iron. Non-metallic minerals are commonly used in applications such as making glass, creating ceramics, and manufacturing pencils.

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