



Name : - \_\_\_\_\_

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Roll No :- \_\_\_\_\_

Worksheet - PA2 -01

Date : - \_\_\_\_\_

### Chapter No. 8 soil Erosion and Conservation Chapter -10 volume weight and Density

#### Q-1 Choose the correct option

- 1) Soil erosion can be increased by:
  - a) planting trees
  - b) cutting down trees
  - c) Growing grass
- 2) Cover crops are planted to
  - a) protect the soil from erosion
  - b) making soil dry
  - c) increase paste
- 3) Terrace farming is often done on
  - a) flat planes
  - b) mountain slope
  - c) Sandy beaches
- 4) If you pour water from a tall narrow glass into a wide shallow bowl , what happens to the water volume?
  - a) it increases
  - b) it decreases
  - c) it stays the same
- 5) If an object has a mass of 20 grams and a volume of  $4 \text{ cm}^3$  what is its density?
  - a)  $5 \text{ g/cm}^3$
  - b)  $8 \text{ g/cm}^3$
  - c)  $10 \text{ g/cm}^3$
- 6) What will happen to a solid object that is denser than water when placed in water?
  - a) it will float
  - b) it will sink
  - c) it will dissolve

#### Q-2 Match the following.

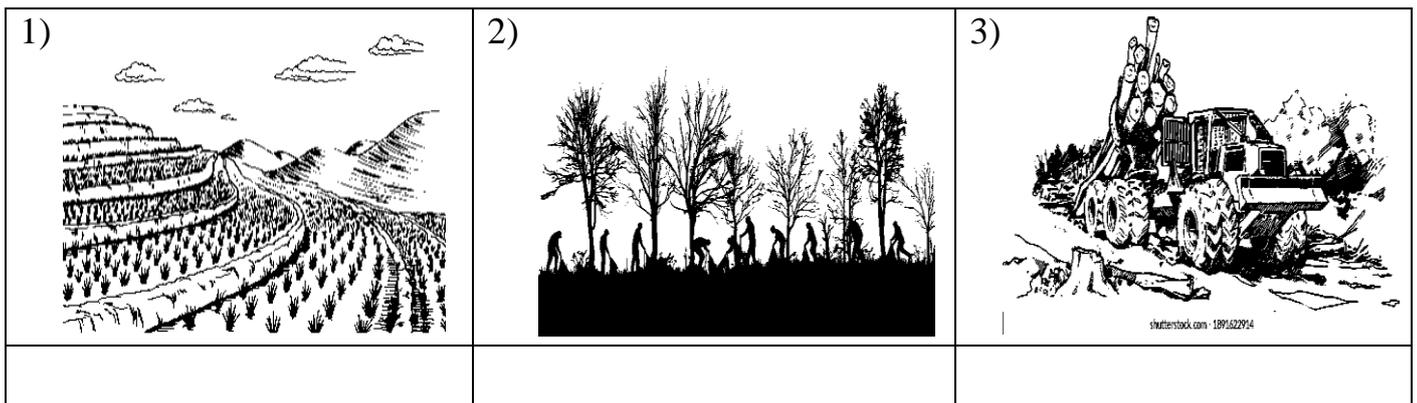
(A)

(B)

Ans:-

- |                    |   |          |
|--------------------|---|----------|
| 1) Humus           | a. Planting trees to prevent soil erosion | 1- _____ |
| 2) Terrace farming | b. Natural decay of plants and animals    | 2- _____ |
| 3) Afforestation   | c. Mass per unit volume                   | 3- _____ |
| 4) Density         | d. Space occupied by an object            | 4- _____ |
| 5) Volume          | e. Following on slopes in steps           | 5- _____ |

#### Q-4 Identify the following pictures.



**Q-3 State True or False.**

- 1) Floating or sinking of an object depends upon its shape and density. \_\_\_\_\_
- 2) A measuring cylinder is used for measuring the weight of liquid. \_\_\_\_\_
- 3) Floods destroy crops and carry the top soil. \_\_\_\_\_
- 4) Different substances having the same volume may not have the same weight. \_\_\_\_\_
- 5) Milk is sold by weight. \_\_\_\_\_

**Q-5 Read the following two statements and choose the correct option.**

**1) Soil was formed due to the erosion of rocks by wind, rain, and Sun.**

**Statement 2-Bunds prevent the water from carrying away valuable topsoil and destroying the crops.**

- a) Both statement 1 and 2 are correct      b) Statement 1 is incorrect but statement 2 is correct
- c) Both statement 1 and 2 are incorrect      d) Statement 1 is correct but 2 is incorrect

**2. Statement 1-We measure the weight of objects in grams or kilograms.**

**Statement 2-A Brick is less dense than a block of wood of the same size.**

- a) Both statement 1 and 2 are correct      b) Statement 1 is incorrect but statement 2 is correct
- c) Both statement 1 and 2 are incorrect      d) Statement 1 is correct but 2 is incorrect

**3. Statement 1-Both density and the shape of an object help it to float.**

**Statement 2-Density of an object can be found by multiplying its mass by its volume.**

- a) Both statement 1 and 2 are correct      b) Statement 1 is incorrect but statement 2 is correct
- c) Both statement 1 and 2 are incorrect      d) Statement 1 is correct but 2 is incorrect

**Q-6) Think and answer.**

**1) If you put a small piece of clay and a large balloon in water, which one will sink and which one will float? Why do you think so?**

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**2) Location A has many trees and location B has a lot of buildings with only one or two trees, which location will experience more soil erosion due to excessive rainfall? Why?**

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