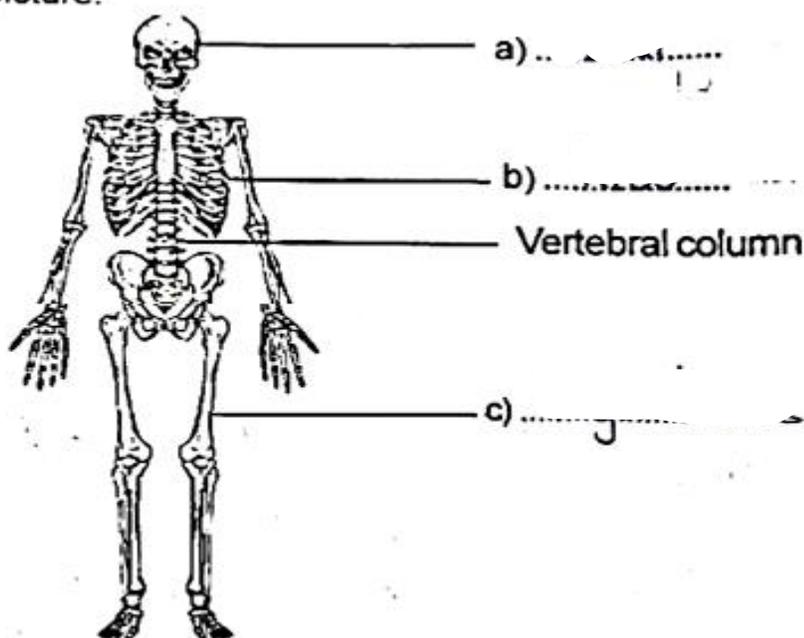


CLASS 6 BASIC SCIENCE ANNUAL EXAMINATION 2022-23

Activity-1

Observe the picture.



- A) Identify and write the bones marked a, b, and c.
- B) Write the functions of any two bones labelled in the skeleton.

Activity - 2

Two friends are preparing their drinks. One of them prepared sugar solution and the other prepared butter milk.

- A) Write down to which category the mixtures belong to based on the features of the particles in them. Write one more example of each category.
- B) Name the molecules present in 'Soda'.

Activity - 3

Examine the following situations.

Bursting of a cracker

Working of a mixer grinder

Lighting a match stick

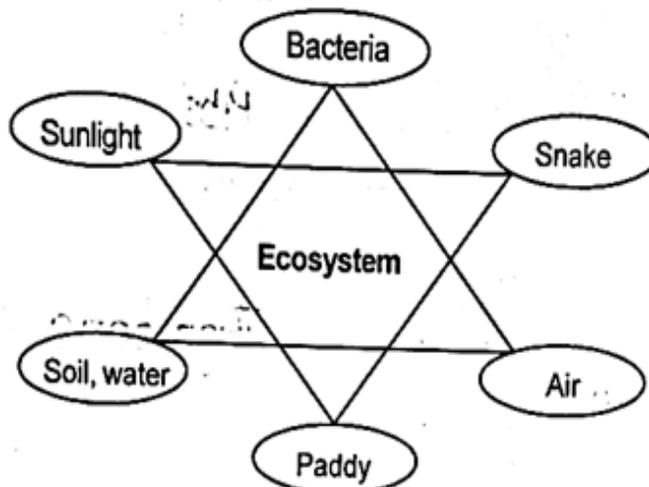
A) In which situation mechanical energy is made use of?

Tabulate the energy changes in the given situations.

Situations	Energy changes
Bursting of a cracker (a) → (b) + (c) + heat
Working of a mixer grinder (d) → Heat + (e) + sound
Lighting a match stick (f) → (g) + Heat + (h)

Activity - 4

Observe the illustration.

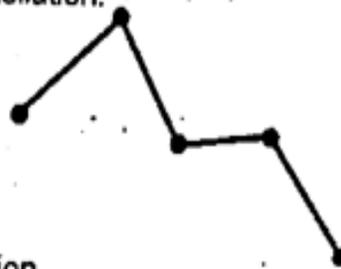


- A) Classify the factors in the ecosystem based on their common features.
 B) Write the importance of maintaining and preserving the factors in the ecosystem.

Activity - 5

We can see shining Jupiter above the western horizon after sunset in the month of March. We can also see Venus shining more brightly above Jupiter. Moreover, we can identify familiar constellations.

- A) What are the features that help us to identify the stars and the planets in the sky?
- B) Identify and name the following constellation.



- C) Identify and name the following constellation.



Activity - 6

Analyse the following situations.

Salt is separated
from sea water.

Situation 1

Tea dust is separated
from tea.

Situation 2

- A) What methods are used to separate the components in both the situations? Explain.
- B) Why do we say that the septic tank should be at least 7.5 meters away from the well?

Activity 7

Parts of different body parts and their characteristics are listed below. Read them.

Arrange the table in the correct order.

Body Parts	Joints	Characteristics
Knee	Pivot joint	can be moved in many directions
Neck	Ball and socket joint	can be moved in only one direction
Shoulder joint	Hinge Joint	can be moved in both directions

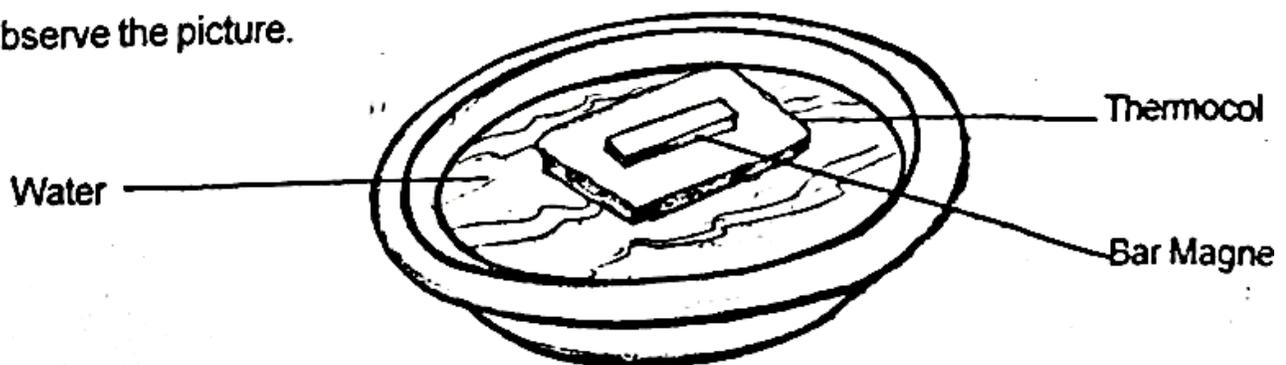
Look at the picture of the hip joint.



- B) Write the procedure and materials needed for making a model of this joint using easily available objects.

Activity - 8

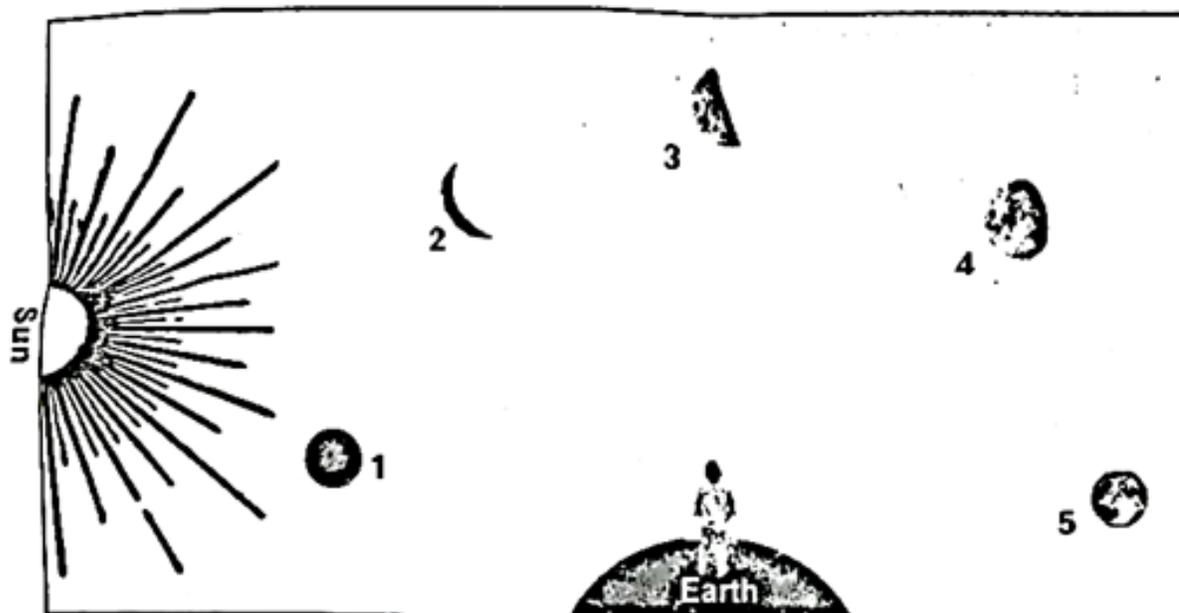
- a) Draw the pictures of a 'U' magnet and bar magnet and mark their poles.
Observe the picture.



- b) A bar magnet is placed on a piece of thermocol in a vessel with water. It was observed that the direction of the bar magnet changed along with the thermocol. Why? Explain.
- c) Name the alloy which is used to make a magnet?

Activity - 9

Observe the Sun, the Earth and the Moon in the given illustration.



- What does picture 1 & 5 indicate? Write the reason for seeing them like this?
- Waxing and waning happens on the Moon. Why?

Activity - 10

Observe the pictures.



Potato



Tomato



Spinach



Beans

- Which food item contains more starch? How can we detect it?
- Write the components of carbohydrates.