

GREENLAWNS SCHOOL, WORLI
FINAL EXAMINATION -2016
ENVIRONMENTAL SCIENCE

STD:V
DATE:25/02/2016

MARKS:80
TIME:1½hrs

NOTE: Attempt all questions.

All diagrams to be done in pencil only.

All answers to be written on the answer booklet provided.

Q1. Fill in the blanks with the correct answers: [4]

1. A push or pull acting on an object is called _____.
2. Energy present in a moving object is called _____.
3. _____ and _____ energy are obtained from nature.
4. The muscles in the heart are examples of _____ muscles.
5. _____ is the long bone at the centre of the chest.
6. Shadows are long during the _____ and _____.

QII State whether the following statements are true or false. If false rewrite the correct statement: [5]

1. Our source of light during the day is the Sun.
2. Light is necessary to see an object.
3. The moon is a luminous natural object.
4. A gas flame emits light and heat.
5. A candle is a source of light.
6. The cerebellum is called the brain stem.
7. A spontaneous response is a reflex action.

QIII.A Name the following. Write only the answers: [10]

1. Number of bones in an adult skull.
2. The muscles that help in movement.
3. The joint that moves the head.
4. The nerves that carry message back from the brain.
5. Any two pulling actions.
6. Any two devices that produce sound.
7. Any two examples of opaque objects.
8. Any two natural sources of light other than the sun.
9. Any two examples of Hinge joints.
10. Any two examples of a Gliding joints.
11. Any two examples of Ball and socket joints.
12. Two metals that are attracted by a magnet.

QIII.B Write **one** word for the following. Write only the answers: [3]

1. The part of the body that is called the human computer.
2. The tough, elastic substance that holds the joints together.
3. The nerves that pass through the spinal cord and carry messages to the brain.
4. Objects without any movement.

5. A tool that helps to do work.
6. An object that does not emit any light.

QIV.A Define the following terms: [8]

- | | |
|----------------|----------------------|
| 1. Spinal cord | 4. Shadow |
| 2. Gravity | 5. Vertebrae |
| 3. Energy | 6. Frictional force. |

QIV.B Distinguish between the following with the clue given within the brackets.

Draw columns: [4]

1. Transparent and Translucent Materials. [passage of light]
2. Cerebellum and Cerebrum [function]
3. Skeletal and Nervous Systems [function]
4. Cardiac and Smooth Muscles [location]

QV. Answer the following questions: [8½]

1. Explain with examples how the skeletal system protects the soft internal organs of our body.
2. What is a reflex action?
3. List the various effects of force.

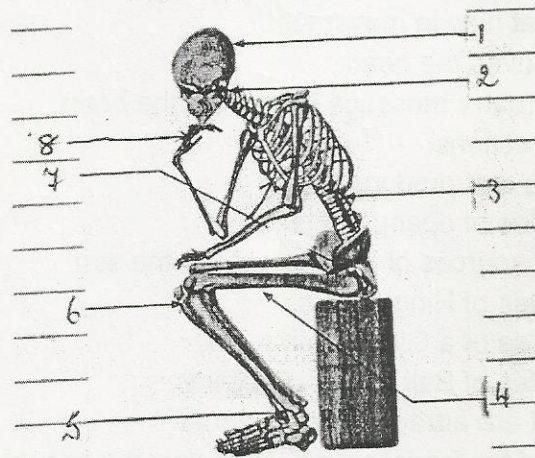
QVI. Give scientific reasons for the following:

1. An object thrown upward reaches a certain height and falls down. [2]
2. We sprinkle talcum powder on carrom board. [2]
3. A plastic comb rubbed on dry hair attracts bits of paper. [2]
4. The size of the shadow is different at different hours of the day. [2]
5. There are muscles all over our body [1½]

QVII.A Draw a neat labeled diagram of a 'Human Brain.' [2]

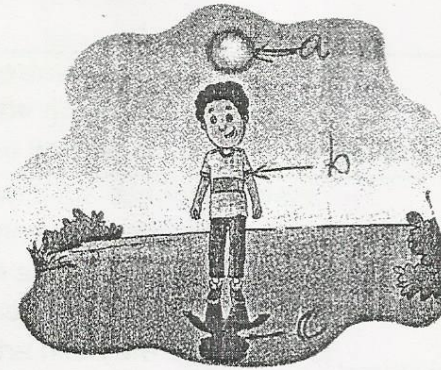
QVII.B Draw any two artificial sources of light and label it. [2]

QVII.C With reference to the diagram given, answer the questions that follow

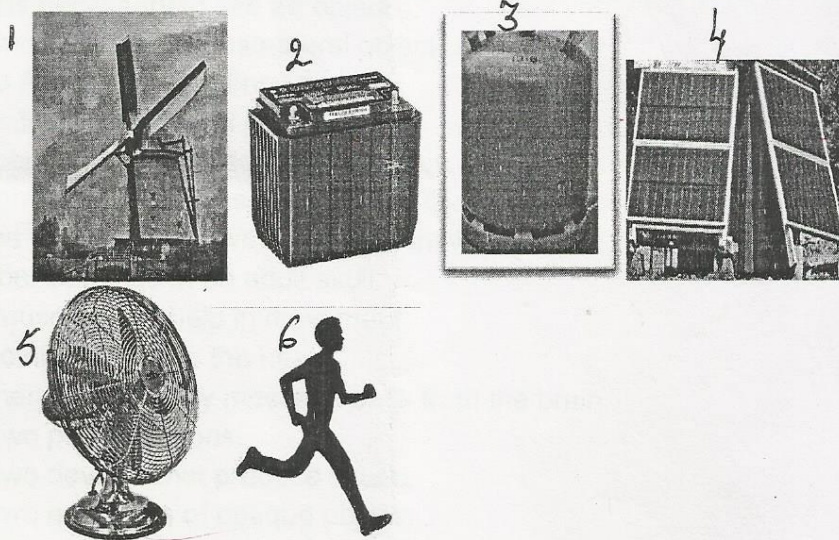


- i. Label the parts numbered 1 to 8. [4]
- ii. How many bones does a human skeleton have? [½]
- iii. What are limbs? How are they useful? [2]
- iv. Define 'Joint'. [1]
- v. What are floating ribs? [1½]
- vi. What would happen if there was no cartilage to hold our bones? [1½]

- vii. Where is the smallest bone in our body? [1/2]
 viii. What is the bone marrow? [2]
 QVIII.A Observe the given diagram and answer the questions that follow:



- i. Label parts 'a', 'b' and 'c'. [1 1/2]
 ii. What is needed to form 'c'? [1 1/2]
 iii. State three unique features of 'c'. [2]
 QVIII.B Identify the given pictures also state which energy is generated/ utilized: [3]



- QVIII.C In the following reflex action state which is a 'response' and 'stimuli'. [3]
 1. The closing of a touch-me-not plant.
 2. Hot tea falls on your leg you start to cry.
 3. Warm hands shake when you receive a gift.

4
13 1/2
61.4