



DELHI PUBLIC SCHOOL

SAIL TOWNSHIP, RANCHI

ANNUAL EXAMINATION (2017-18)

Class:- VI
Time- 2½ Hrs.

Subject:- Science
F. M:- 80

PHYSICS

- Q.1** Choose the correct option from the following. [4×1= 4]
- (a) The size of the shadow of an opaque object close to the screen and away from the source of light
(i) increases (ii) Decreases (iii) Remains the same (iv) first decreases then increases
- (b) An electric cell produces electricity from the ----- stored inside it.
(i) Current (ii) Energy (iii) Chemicals (iv) Light
- (c) Which of the following pairs consists of a conductor and an insulator of electricity
(i) Wood and wool (ii) Copper and steel (iii) Silver and gold (iv) Silver and rubber.
- (d) Which of the following is a natural magnet ?
(i) Iron (ii) Magnetite (iii) Nickel (iv) Cobalt
- Q.2** **Very short answer questions:-**
- (a) In any electrical circuit, why does the wire, switches, bulb become hot when the switch is on for a long time? [1]
- (b) Mention two uses of insulators. [1]
- Q.3** **Short answer questions:-**
- (a) (i) What is the name of the thin wire inside an electric bulb ?
(ii) What are the features of this wire ? [2]
- (b) What is an incandescent body ? Give one example. [2]
- (c) Define magnetic field. On what factor does its strength depend ? [2]
- (d) (i) Rohan saw that his younger brother is opening the door of the refrigerator for getting a chocolate with wet hands. Rohan stopped his brother from doing so. What good values you can find in Rohan's activity.
(ii) Why Rohan stopped his brother ? Why we are not supposed to handle any electrical device with wet hands? [1+2=3]
- (e) Why it is said that repulsion is the sure test of magnetism? Sketch the magnetic field lines of a bar magnet. [3]
- Q.4** **Long answer questions:-**
- (a) Differentiate between umbra and penumbra.
- (b) Explain an activity which shows rectilinear propagation of light. [2+ 3= 5]
- OR**
- (a) Describe a pinhole camera with a suitable diagram.
- (b) What are the nature of the image formed.
- (c) Write one use of pinhole camera. [3+1+1= 5]
- Q.5**
- (a) What is self demagnetization? How it is prevented?
- (b) Describe how to make an iron strip act as a magnet
- (c) Name the method. [2+ 2+ 1= 5]

OR

- (a) Write the properties of the poles of a magnet.
(b) Describe a magnetic compass with diagram.
(c) Why a magnetic compass is used to find direction [2+ 2+ 1= 5]

CHEMISTRY

- Q1. The process of condensation is the reverse of :
(a) evaporation (b) precipitation (c) freezing (d) sublimation. [1]
- Q2. Air is considered to be:
(a) a compound (b) a mixture (c) a solvent (d) an element [1]
- Q3. Name the component of air which condenses on a cold surface to form drops of a liquid. [1]
- Q4. Why do mountaineers carry oxygen cylinders with them while climbing high mountains? [1]
- Q5. When a pot of freshly cooked rice is opened, there are always tiny drops of water on the underside of the lid of the pot. Explain how this happens. [2]
- Q6. (a) Why should we breathe only through the nose and not through the mouth?
(b) Why do plants need carbon di oxide? [1+1 = 2]
- Q7. (a) What do you mean by desalination of water?
(b) Which chemical is added to water to make it safe for drinking? [1+1=2]
- Q8. Write four uses of air. [$\frac{1}{2} \times 4 = 2$]
- Q9. (a) How are the animals living in soil affected if it rains heavily?
(b) Mention three water wise habits. [$1\frac{1}{2} \times 2 = 3$]
- Q10. (a) Explain with the help of diagram why, a burning candle stops burning after some time when covered with an inverted glass jar.
(b) Mention two harmful effects of drought? [2 + 1 = 3]
- Q11. (a) How do the roots of land plants get oxygen for respiration?
(b) Why does a lump of cotton shrink in water? [$1\frac{1}{2} \times 2 = 3$]
- Q12. Choose either of the two A or B
A) a) Explain water cycle.
b) Write about its significance.
c) Draw a well labelled diagram of water cycle. [1+1+3=5]

OR

- B) a) Why is it essential to conserve water ?
b) Define rainwater harvesting.
c) Draw a well labelled diagram of the above. [1+1+3=5]

BIOLOGY

- Q.1 Choose and write the correct option-- [1x2=2]
(a) Which of these animals has a highly flexible backbone-
(i) earthworm (ii) snakes (iii) fish (iv) birds
(b) What is the colour of the dustbin used to throw non-biodegradable waste –
(i) green (ii) purple (iii) blue (iv) yellow

- Q.2 Answer in short-- [1x4= 4]
- (a) What is adaptation ?
 - (b) What would happen if aquatic plants had hard and stiff stem?
 - (c) Why is our backbone made of several small bones called vertebrae?
 - (d) Which animal has a muscular foot? What is its use?

- Q.3 Answer as directed-- [2x3= 6]
- (a) Draw a labelled diagram to show movement in snake.
 - (b) Define respiration. Name two organisms which breathe through their Skin.
 - (c) Write four benefits of using compost in fields for growing crops.

- Q.4 Answer the following questions-- [3x3= 9]
- (a) Which type of joint is present in our elbows? Draw the Joint with proper labels.
Why can we move our elbows only in one direction?
 - (b) Write three adaptations in mountain plants which help them to survive in their habitat.
 - (c) Write two ways to reduce overuse of plastic. Write two points of difference between biodegradable and non-biodegradable waste.

- Q.5 Answer any ONE of the following questions-- [5]
- (i) (a) Draw a well labelled diagram to show cactus growing in the desert.
 - (b) Write the adaptations in the cactus plant.

OR

- (ii) (a) Draw a well labelled diagram of a fish.
- (b) Write the adaptations in aquatic animals which help them to survive in their habitat.
