GENERAL INSTRUCTIONS:
1. Question paper is divided into two sections A and B.
2. Section A consists of questions from Physics and Chemistry and Section B consists of questions from Biology.
3. Marks are written in front of each question.
4. There is no overall choice though internal choice is given in five mark questions.
5. Write the serial number of the question before attempting.
6. Draw the diagrams neatly with the help of sharp pencil.

SECTION – A

Q1. Fill in the blanks: (0.5x10=5)
   a. Error in reading measurement due to wrong position of the eye is called_________.
   b. ________ is very useful for sailors in navigation.
   c. __________ water is salty and is unfit for consumption.
   d. __________ water is purest form of water.
   e. SI unit of mass is___________.
   f. ________ is distance between tip of middle finger and elbow.
   g. Lack of water may lead to _________.
   h. Earth behaves like a huge __________.
   i. __________ season is best for the cultivation of jute.
   j. ________ fibre is woven to make a fabric called linen.

Q2. Answer the following in one or two sentences: (1x6=6)
   a. Write any two properties of a magnet.
   b. The distance between two bus stops is 320mm. Express this distance in cms.
   c. Name any two hand operated devices used in spinning.
   d. You are provided with two identical metal bars. One out of two is a magnet. Suggest one way to identify the magnet.
   e. Water spilled on the ground dries up after some time why?
   f. Write one point of difference between Natural and synthetic fibres.

Q3. Answer the following in 30-40 words: (2x7=14)
   a. List two advantages of rainwater harvesting.
   b. How should two bar magnets be stored to avoid losing their magnetism?
   c. Write two points of difference between Random motion and Rectilinear motion.
   d. Name the fiber used to make fishing rods. Why is this fiber used?
   e. We should not breathe through mouth why?
   f. A toy car has a bar magnet laid hidden inside its body along its length. Using another magnet how will you find out which pole of the magnet is facing the front of the car.
   g. How do we obtain jute from jute plant Explain?

Q4. Answer the following in 50-55 words: (3x5=15)
   a. Design an activity to prove that like poles repel while unlike poles attract each other.
b. Explain the steps involved in making fabrics from fibre.
c. Why do we find droplets on the underside of plate that is kept on a hot bowl of soup?
d. Define term motion. Give two examples in which an object shows more than one type of motion.
e. Define water cycle. Mention the four processes involved in water cycle.

Q5. (2+3=5)

a. Three students measured the length of a corridor and reported their measurements. The value of their measurements was different. What could be the possible reasons for difference in their measurements?
b. Identify the type of motion in the given examples:
   b.i. Moving blades of ceiling fans.
   b.ii. A bird flying in air.
   b.iii. An apple falling from tree.
   b.iv. A ball thrown up in the air.
   b.v. An ant crawling on a sheet of paper.
   b.vi. Wheel of bullock cart.

OR

a) While measuring the length of a paper clip on a scale, the reading at one end is 1.0 cm and the other is 4.3 cm. What is the total length of the paper clip? Express the value in mm.
b) How will you measure the length of a curved line.

Q6. a) Why are synthetic clothes are not preferred during summers?
   a. i. Identify the process being shown in the given figure.
      ii. Define this process.
   ii. What is the importance of this process in making fabric.

OR

A. How do we obtain jute from jute plant. Explain complete process. (3+1+1=5)
B. In which season it is cultivated.
C. Name two states of India where jute is mainly grown.

Q7. Fill in the blanks: (0.5x8=4)

a. The bone at the elbow is joined by a __________ joint.
b. The air is a __________ of some gases.
c. The habitat of a plant and animal living on land is called __________.
d. The __________ are used in vermicomposting.
e. __________ are small bones which make our backbone.
f. __________ is non living component of a habitat.
g. The percentage of Oxygen present in air is __________.
h. ___________ helps red worms in grinding their food.

Q8. Give one word for the following: (1x4=4)
   a. Gas released during photosynthesis.
   b. Waste which can be decomposed.
   c. Organ through which whales breathe.
   d. Locomotory organ of snail.

Q9. Give reasons for the following: (1x5=5)
   a. We cannot move our elbow in backward direction.
   b. Powered egg shells should be added in the vermin compost pit.
   c. You experience difficulty in breathing for a short time if you visit hill station.
   d. Plastic items should not be burned.
   e. You don’t see lizards in your house in the months of December and January.

Q10. Answer the following in 20 – 30 words: (2x7=14)
   a. Why is speed important for the survival of animals in the grasslands.
   b. List any two adaptations that help the camel to survive in the desert.
   c. List any four activities that are possible due to the presence of air.
   d. Write two adaptations of floating aquatic plants.
   e. What is bone marrow? What is its function.
   f. All living things respond to stimuli. Explain with an example.
   g. Explain how the balance of oxygen and carbon dioxide is maintained in the air.

Q11. Answer the following in 50 – 55 words: (3x6=18)
   a. What is landfill? State its two advantages.
   b. List any three ways to minimize the overuse of plastic.
   c. Give any three adaptations of birds that help it to fly in the sky?
   d. Mention special feature of leaves of following plants.
      a. Aquatic submerged plants
      b. Cactus
      c. Mountain pine tree
   e. Salim is a rag picker collected used poly bags from housing colony. He put them in a pile and burnt them. Did he do the right thing? Give two reasons to support your answer.

   f) i) Name the habitat of the animal shown below.
ii) Write two special features which help it to survive in its habitat.

Q12. a) State two functions of skeleton. (2+3=5)
b) Write the type of joint which is used for each of the movements:
   i. A cricket bowler bowls the ball. ________________
   ii. A girl moves her head in left and right direction. ________________
   iii. When football player kicks a ball. ________________

   OR

a). How does slime help in movement of animals lie snail and earthworm?
b). Explain how snake moves from one place to another.