AGLASEM.COM

# 2023-24

# HALF YEARLY EXAM

NCERT BASED
SYLLABUS
DOWNLOAD PDF

FOR
CBSE BOARD
AND
STATE BOARDS

# Half Yearly Exam 2023-24
# Question Paper

**Class - VI** | **Subject – Science**
**Time – 3 Hours** | **Maximum Marks - 80**

## PHYSICS

1. Where should be the position of our eye while reading a scale **[1]**
   (a) in front of our reading
   (b) towards right of the reading
   (c) towards left of reading
   (d) below the reading

2. Which of these are required to form the shadow of a ball? **[1]**
   (a) Torch
   (b) Ball
   (c) Screen
   (d) all of these

3. **Assertion:** Shadow is formed when an opaque object comes in the path of light.
   **Reason:** An opaque body does not allow any light to pass through it. **[1]**
   (a) Both A and R are true and R is the correct explanation of A.
   (b) Both A and R are true but R is not the correct explanation of A.
   (c) A is true but R is false.
   (d) A is false but R is true.

4. What kind of motions are observed in the pendulum of a clock? **[1]**

5. How many metres make 5.3 km? **[1]**

6. Is the motion of the earth around the sun periodic? Give reason for your answer. **[2]**

7. (a) Define cubit. **[2]**
   (b) Suppose your cubit is 30 cm. What will be length of 5 cubit?

8. Draw a neat and labelled diagram of pin- hole camera. **[2]**

9. State two laws of reflection of light. **[2]**

10. A boy of height 175 cm is standing 10 m away from the plane mirror. **[3]**
    (a) What is the size of the boy's image on the mirror?
    (b) What is the distance between the boy's image and the mirror?
    (c) What is the distance between the boy and his image?



schools.aglasem.com
aglasem.com

11. (a) While measuring the length of a knitting needle, the reading of the scale at one end is 3.0 centimetre and at the other end is 33.1 centimetre. What is the length of the needle? Show working.
(b) Give one example each of mode of transport in water and on land. **[3]**

12. (a) Can you think of creating a shape that would give a circular shadow if held in one way and a rectangular shadow if help in another way? Explain with diagram.
(b) Classify these as transparent, translucent and opaque object: Mirror, glass **[3]**

13. **Attempt either A or B** **[5]**

A. (i) What are the three precautions you will take while using a scale to measure length of a line segment.
(ii)Why can't a pace or a footstep be used as standard unit of length?

**OR**

B. (i) Describe an activity to show that light travels in a straight line.
(ii) Write two differences between image and shadow.

## CHEMISTRY

**I. Very short answer questions** **[1 x 5 = 5]**

1. The question below consists of an assertion and a Reason. Use the following key to choose the appropriate answer.
(a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true but R is not the correct explanation of A.
(c) A is true but R is false.
(d) A is false but R is true.

**Assertion (A):** Burning of paper is a physical change.
**Reason (R):** The products formed on burning of paper cannot be easily converted back to paper.

**2.** Paheli asked for a glass of water from Boojho. He gave her a glass of ice cold water. Paheli observed some water droplets on the outer surface of the glass and asked Boojho,how these droplets of water were formed? Which of the following should be Boojho's answer?
(a) evaporation of water from the glass
(b) water that seeped out from the glass
(c) evaporation of atmospheric water vapour
(d) condensation of atmospheric water vapour

3. X is a separation technique used only when the components of solid – solid mixture have different sizes. Identify X
(a) Winnowing
(b) Sieving
(c) Threshing
(d) Magnetic separation

4. Cooking of an egg in boiling water containing salt is a
(a) Permanent change
(b) Temporary change
(c) Irreversible change
(d) Both a and c



schools.aglasem.com
aglasem.com

5. Boojho found a bag containing the following materials.
(i) Mirror
(ii) Paper stained with oil
(iii) Magnet
(iv) Glass spectacles

Help Boojho in finding out the material(s) which is/are opaque.
(a) (i) only
(b) (iv) only
(c) (i) and (iii)
(d) (ii) and (iv)

**II.** Short **answer questions -** **[2 x 4 =8]**

6. Differentiate between saturated and unsaturated solution.

7. What is centrifugation? Give an example of mixture separated by this process.

**8.** Choose the material from the following, which could be used for making handles of the cooking utensils. Give reason for it.
Material: wood, steel, hard plastics, rubber & iron

**9.** Paheli had bought a new bottle of pickle from the market. She tried to open the metal cap to taste it but could not do so. She then took a bowl of hot water and immersed the upper end of the bottle in it for five minutes. She could easily open the bottle now. Can you give the reason for this?

**III. Long answer questions** **[3 x 3 = 9]**

10. Explain the method that can be used for separating the following mixture.
(a) Sand and salt
(b) Wheat flour, Gram, Iron Filings



11. What is the difference between following changes: (Write any three points)
(a) Rolling a roti from dough.
(b) Baking of a roti.

12. Why does a blacksmith heat the metal rim to fix it on a cart wheel?

**IV. Very Long answer questions -** **[5 x 1 = 5]**

**13.** (a) Explain the separation of immiscible liquids with well labelled diagram.
(b) Which difference is utilized here to separate the component of mixture?
(c) Name a method which can be helpful in separating a mixture of husk from grains. What is the principle of this method?

**OR**

(a) Explain the separation of clear water from a sample of muddy water with well labelled diagram.
(b) Name one magnetic and one non magnetic material.
(c) What do you mean by threshing? Where is it used?

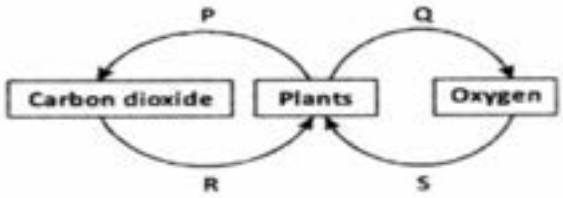


schools.aglasem.com
aglasem.com

# BIOLOGY

**I. Choose the correct option:** **[1X2=2]**

1. Which of the following arrows show the processes that green plants go through in the day in the presence of sunlight during photosynthesis?




(a) P and Q only
(b) P and R only
(c) Q and R only
(d) P, Q and S only

**2. Give below are two statements, one labelled Assertion (A) and the other labelled Reason (R).**
**Assertion (A) –** Cotton plants are usually grown at places having black soil and warm climate.
**Reason (R) –** The fruits of the cotton plant are about the size of a lemon and are known as cotton bolls.
**Select the correct answer from the options given below:**
(a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true but R is not the correct explanation of A.
(c) A is true but R is false.
(d) A is false but R is true.

**II. Answer the following questions in one sentence:** **[1x2=2]**

3. Why should we have a combination of different nutrients in our diet?
4. How are seeds different from grains? (Give one point)

**III. Answer the following questions briefly:**

5. Leela often complained of bleeding gums. She also had a weak immune system, and her wounds took longer time to heal. The doctor prescribed her a vitamin supplement and asked her to include vitamin rich food in her diet. **[1+1=2]**
(a) Which deficiency disease could Leela be suffering from? Also name the vitamin that is lacking in her diet.
(b) Minerals and vitamins are needed in very small quantities by our body. Yet they are an important part of a balanced diet. Give a reason to justify the statement.

6. Can the stem of a plant be compared with a street with two – way traffic? Give scientific reasons in two points. **[2]**

7. (a) Jute is very strong fibre. Why then is it not used to make clothes generally? (Give one point)
(b) Fabrics made from cotton are more comfortable in summer season. Comment upon the statement. **[1+1=2]**

**8.** Water does not provide nutrients, yet it is an important component of food. Explain the importance of water in our body in two points. **[2]**



schools.aglasem.com
aglasem.com

**IV. Answer the following questions as directed:**

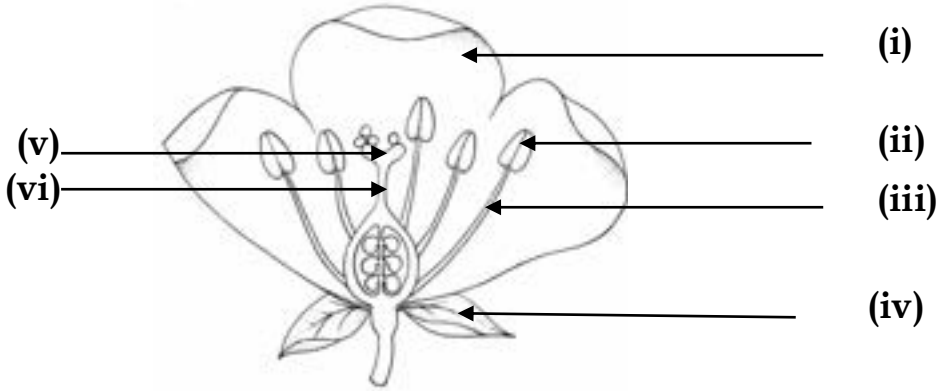
9. (a) Compare natural fibres with synthetic fibres. (Give two points)
   (b) Explain briefly the process of making yarn from fibres. **[2+1=3]**

10. (a) State two symptoms of protein deficiency in children. **[1+1+1=3]**
   (b) Explain why rice and pulses should not be washed repeatedly before cooking.
   (c) Name the two chemicals used to test the presence of protein in food.

11. (a) Draw a neat diagram showing the structure of a leaf and label the following parts: **[2+1=3]**
   (i) The broad, green part of the leaf
   (ii) The part of leaf by which it is attached to the stem
   (iii) The central thick vein in the middle of the leaf
   (b) Potatoes do not produce starch. Yet they are full of it. How is it possible?

**V. Answer the following questions in detail:**

12. **The given diagram represents the structure of a flower. Study the same and answer the questions that follow:-** **[2+1+1+1=5]**




   (a) Name the parts labelled as **(ii), (iii), (v)** and **(vi)**.
   (b) Mention the functional difference between the parts labelled as **(i)** and **(iv)** .
   (c) In which part of a flower is ovary found? Name the tiny rounded structures seen in the innermost part of an ovary.
   (d) Write the function of stigma in flowers.

**OR**

**12. The diagrams given below show two different types of roots. Study the diagrams and answer the questions that follow:-** **[1+1+2+1=5]**



**(i)** **(ii)**

   (a) Mention the types of roots represented by the diagrams (i) and (ii).
   (b) What is the relationship between venation and the types of roots?
   **(c)** Briefly explain any two functions of roots.
   (d) What do you understand by the term transpiration?



schools.aglasem.com
AglaSem Earn while Learn Program. Send your papers and get paid.
Contact: support@aglasem.com
aglasem.com

# QUESTION PAPERS

GET PREVIOUS YEAR QUESTION PAPERS FOR ALL CLASSES FOR CBSE, ISCSE, ISC AND ALL ALL STATE BOARDS HERE AT AGLASEM.COM

BOARD WISE

- Andhra Pradesh Board Question Papers
- Assam Board Question Papers
- Bihar Board Question Papers
- Chhattisgarh Board Question Papers
- Goa Board Question Papers
- Gujarat Board Question Papers
- Haryana Board Question Papers
- Himachal Pradesh Board Question Papers
- J&K State Board Question Papers
- Jharkhand Board Question Papers
- Karnataka Board Question Papers
- Kerala Board Question Papers
- Madhya Pradesh Board Question Papers
- Maharashtra State Board Question Papers
- Manipur Board Question Papers
- Meghalaya Board Question Papers
- Mizoram Board Question Papers
- Nagaland Board Question Papers
- Orissa Board Question Papers
- Punjab Board Question Papers
- Rajasthan Board Question Papers
- Tamil Nadu Board Question Papers
- Telangana State Board Question Papers
- Tripura Board Question Papers
- Uttarakhand Board Question Papers
- Uttar Pradesh (UP) Board Question Papers
- West Bengal (WB) Board Question Papers