ANNUAL EXAMINATION

Question Paper 2023

NCERT BASED SYLLABUS

FOR CBSE AND STATE BOARD
FOLLOWING NCERT

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ANNUAL EXAMINATION (2022-23)

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

Attempt all questions. However there are internal choices. Rough work to be done in the right margin.

PHYSICS

1. Which of the following controls the flow of current in a circuit ? **[1]**
   (a) Wire
   (b) Switch
   (c) Battery
   (d) Bulb

2. Which of the following property is the sure test of magnetism. **[1]**
   (a) Attraction
   (b) Repulsion
   (c) Both(a) and (b)
   (d) None of these

3. What is the SI unit of length? **[1]**

4. How many poles does a ball ended magnet has? **[1]**

5. The height of a person is 1.72 metre. Express it into centimetre and millimetre. **[2]**

6. (a) What is shadow ?
   (b) What do you mean by rectilinear propagation of light? **[2]**

7. Why are electric wires made out of copper or aluminium and not of silver even though it is a better conductor of electricity? **[2]**

8. (a) What kind of motions are observed in a pendulum of a clock?

   (b) Why could you not use an elastic measuring tape to measure distance ?what would be some of the problems you would meet in telling someone about a distance you measured with an elastic measuring tape? **[3]**

9. (a) Can you think of creating a shape that would give a circular shadow if held in one way and rectangular shadow if help in another way?
   (b) Draw a well labelled diagram of pinhole camera. **[3]**

10. (a) Differentiate between conductors and insulators.
    (b) The handles of the tools like screwdrivers and pliers used by electricians for repair work usually have plastic or rubber covers on them .Can you explain why? **[3]**

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11. (a) How many north poles and South poles would there be in all if you break a magnet into 20 pieces?
(b) A bar magnet has no markings to indicate its poles.How would you find out near which end is its North Pole located? **[3]**

12. Attempt either A or B

A.

1. Draw a well labelled diagram of an electric bulb.

2. Explain one activity to classify coins,cork, plastic scale and aluminium foil as conductors and insulators.

OR

B.

1. State two properties of a magnet.
2. You are given an iron strip. How will you make it into a magnet. **[5]**

CHEMISTRY

I. Very short answer questions. **[1x5 =5]**

1. Which among the following is a magnetic material
(a) Iron (b) Nickel (c) Cobalt (d) all of these

2. Name the chemical used as a disinfectant of water
(a) chlorine (b) alum (c) charcoal (d) all of these

3. Is dissolution of sugar in water a physical or chemical change?

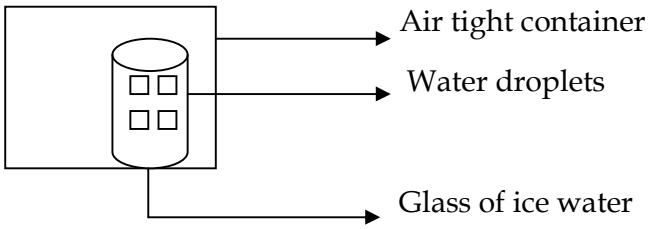
4. Name the process along with the chemical which is added to speed up the sedimentation process.

5. During a change a new substance having different properties is formed. Is the change a chemical or physical change?

II. Short answer questions. **[2x4=8]**

6. Differentiate between saturated and unsaturated solution .How can a saturated solution be made unsaturated?

7. A glass of ice water is put in an air tight container as shown below. After a short while, state whether the air in the container will contain less water vapour or more water vapour? Give reasons for your answer.



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8. (a) What is meant by aqueous solution ?
(b) How the solubility of a solid and gas in water, changes with rise in temperature?

9. Why do we observe many earthworms on earth's surface during monsoon?

III. Long answer questions. **[3x3 =9]**

10. (a) Why do iron articles placed in moist air get covered with reddish brown substance when exposed to moist air ?
(b) Is this process a reversible or irreversible change ?
(c) What can be done to regain its lustre?

11. (a) Why do traffic police wear mask on busy roads ?
(b) Why fishes cannot survive in distilled water?

12. (a) What is drought?
(b) What are the problems faced by the people living in the areas having drought conditions?

IV. Very long answer questions. **[1x5 =5]**

13. (a) Which term described the amount of water vapour in the air?
(b) Which gas is used to extinguish the fire?
(c) Show with the help of an activity that air (oxygen) is required for burning.

OR

(a) Name the device that can be used to produce electricity by using the wind energy.
(b) Which of the processes respiration or photosynthesis, is the major source of oxygen in the atmosphere?
(c) Show with the help of an activity that air has mass.

BIOLOGY

I. **Choose and write the correct option -** **[2x1= 2]**

1. Which among the following statements is wrong-
(a) Vitamin C gets destroyed on heating.
(b) Sportspersons need plenty of carbohydrates and proteins in their diet.
(c) Obesity is a condition caused by unhealthy eating habits.
(d) We can obtain all the vitamins from our diet.

2. Select the correct option to fill in the blanks-

All animals do not have an/a (i) ——- skeleton. They move with the help of (ii)———- which (iii)———— and (iv)———- to help them in locomotion. Some animals have (v)———-skeleton such as scales which help in movement.

(a) (i)internal, (ii)muscles, (iii)contract, (iv)relax, (v)external
(b) (i)bony, (ii)joints, (iii)contract, (iv)relax, (v)external
(c) (i)bony, (ii)scales, (iii)expand, (iv)contract, (v)cartilage.
(d) (i)external, (ii)muscles, (iii)contract, (iv)relax, (v)internal

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II. Answer in short - **[2x1= 2]**

3. Why should we avoid overcooking of food?
4. How does the baby plant inside the seed get nourishment to germinate?

III. Answer the following questions - **[4x2= 8]**

5. (a) What is diet?
   (b) On what factors does the diet of a person depend? Mention two points.

6. (a) What are synthetic fibres?
   (b) Write one advantage and one disadvantage of synthetic fibres.

7. (a) What is stimulus and response?
   (b)Mention two characteristics which help mountain animals to survive in their environment.

8. (a) What is landfill?
   (b) Write two disadvantages of throwing wastes in a landfill.

IV. Answer as directed- **[3x3= 9]**

9. (a) Why are flowers called the reproductive parts of a plant?
   (b) Name any two vegetative parts of a plant.
   (c) Why is stem called a two way street?

10. Give reasons for the following statements-
   (a) Frogs have strong hind limbs.
   (b) Submerged aquatic plants have ribbon- like leaves.
   (c) Predators have eyes at the front of their face.

11. (a) Write two points of difference between biodegradable and non- biodegradable wastes.
   (b) Mention two ways in which use of vermicompost is beneficial in farming.

V. Choose and answer any one of the following questions- **[2+1+2=5]**

12. (a) Draw a labelled diagram of a ball and socket joint.
   (b) Why do snakes have a long and flexible back bone?
   (c) Write two points of difference between movement and locomotion.

OR

(a) Draw a labelled diagram of a hinge joint.
(b) What type of movement does it allow?
(c) Write two points of difference between bones and cartilages.

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