



THE LAWRENCE SCHOOL ,SANAWAR
Entrance Examination for Class VII

SCIENCE

Time: 01 Hour

Max. Marks: 100

Name (In Capital Letters) _____

Registration Number _____

Centre _____

MARKS OBTAINED

Note: Teacher on duty is requested to ensure that the child has written correct and complete Registration Number

GENERAL INSTRUCTIONS FOR THE CANDIDATE

- 1. All questions are compulsory*
- 2. Questions are to be answered on the question paper itself (on the space provided against each question)*

Name of the Teacher

Signature

Q.1. Identify the property of the material in the following uses: **(1 × 5 = 5)**

- (a) Copper in electric wires _____
- (b) Glass in window panes _____
- (c) Wood in boats _____
- (d) Gold in jewellery _____
- (e) Sponge for cleaning cars _____

Q.2. State whether the following statements are 'True' or 'False'. **(1 × 15 = 15)**

- a) A dry cell can be recharged. _____
- b) All birds are herbivores. _____
- c) We eat the flowers and fruits of the banana plant. _____
- d) Vitamin E deficiency causes Beriberi. _____
- e) Jute is popularly known as golden fibre. _____
- f) Water and milk are immiscible. _____
- g) Muddy water can be cleaned faster by using the method of loading. _____
- h) Souring of milk is a reversible change. _____
- i) Plants can only produce oxygen. They cannot use it. _____
- j) The roots of a plant always grow in the soil. _____
- k) The human skull has all immovable joints. _____
- l) Bats are considered to be arboreal organisms. _____
- m) A type of motion in which a body moves about an axis is called revolution. _____
- n) Attraction is the true test of magnetism. _____
- o) During photosynthesis, plants take oxygen and release carbon dioxide. _____

Q.3. Give one word answers: **(1 × 15 = 15)**

- (a) A type of force that slows down an object. _____
- (b) A device that converts solar energy to electrical energy. _____
- (c) The closed path around which electric current flows. _____

- (d) Temporary magnets made by passing electricity. _____
- (e) Falling of water in any form onto the earth's surface. _____
- (f) The substances that cause pollution. _____
- (g) Tiny pores present on a leaf to exchange gases. _____
- (h) The pattern of arrangement of veins on a leaf lamina. _____
- (i) The process in which birds sit on their eggs to provide warmth. _____
- (j) A device used to close or open an electric circuit. _____
- (k) The long seasonal sleep of animals. _____
- (l) The male reproductive part of a flower. _____
- (m) The property of plant stem to grow towards the source of light. _____
- (n) Deterioration of a material due to interaction with its environment. _____
- (o) Anything that occupies space and has mass. _____

Q.4. Answer the following:

(2 × 20 = 40)

- (a) Both scavengers and decomposers feed on the dead. How are they different?

- (b) Our grandmothers often advise that new born babies should be exposed to sunlight. What is the scientific reason behind this advice?

- (c) Why is the use of jute and cotton bags being encouraged these days?

- (d) Why is it easy to hold a steel tumbler with cold milk than the one with hot milk?

(e) Your mother has accidentally mixed mustard oil and water. Name an instrument/equipment that can be used to separate the two liquids easily?

(f) Is a working robot living or nonliving? Give two reasons to support your answer.

(g) Potatoes do not produce starch. Yet, they are full of it. How is it possible?

(h) Both teeth and bones are made up of calcium. Then, how are teeth different from bones?

(i) Lions and deer are found in grassland. They both have remarkable speed. Why do they need such high speed to survive on grassland?

(j) A carpenter is fixing a curtain rod on the wall by tightening a screw. Name at least two types of motion that the screw is undergoing.

(k) If you are standing in an open field at 12 noon, what kind of shadow you see of yourself?

(l) Can there be a solar eclipse on planet Mercury? Give suitable reason for your answer.

(m) Your brother has made a battery operated torch using two cells and has come to ask you how he may make the torch more powerful. What would you advise him?

(n) You are given three identical bar magnets in three identical beakers. One beaker has cold water in it, one has hot water in it and the third one has no water in it. Now you pour iron

fillings in all three of them. With suitable reason explain which one will attract minimum iron fillings.

- (o) People in your locality uses groundwater daily and they have not taken any steps to replenish the groundwater. Suggest them two steps to replenish the groundwater?

- (p) Why does a fish die when kept in water in a closed container without any aquatic plants?

- (q) Why animal products should not be used in vermicomposting?

- (r) Mention any difference between shadows and images?

- (s) Why is the process of excretion important in our body?

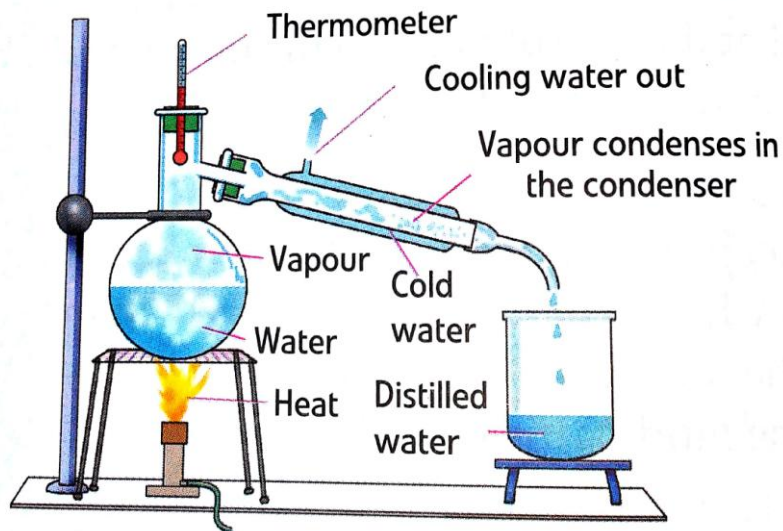
- (t) How are insulators important in making electrical heating devices?

Q.5. Tick (✓) the unit that is more convenient to use in the following measurements. (1 × 5 = 5)

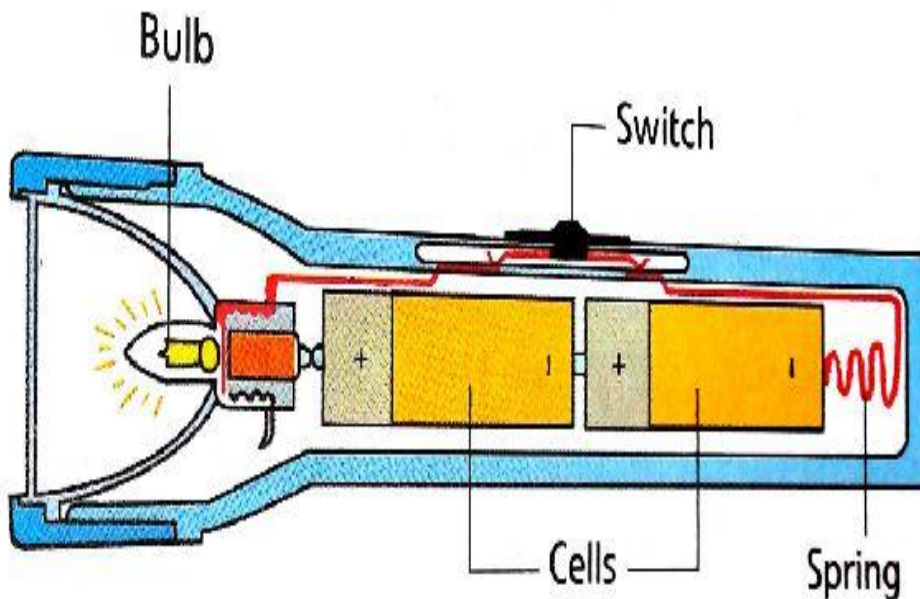
a)	The distance between Delhi and Kolkata:	a) 1800 km	or	b) 1800000 m
b)	The width of your father's mobile:	a) 0.008 m	or	b) 8 mm
c)	The mass of a cup cake in a shop:	a) 35 g	or	b) 0.035 kg
d)	Time spent by you in school:	a) 21000 second	or	b) 6 hours
e)	The speed of your school bus:	a) 18 km/h	or	b) 500 cm/s

Q.6. Answer the following questions: (3 × 5 = 15)

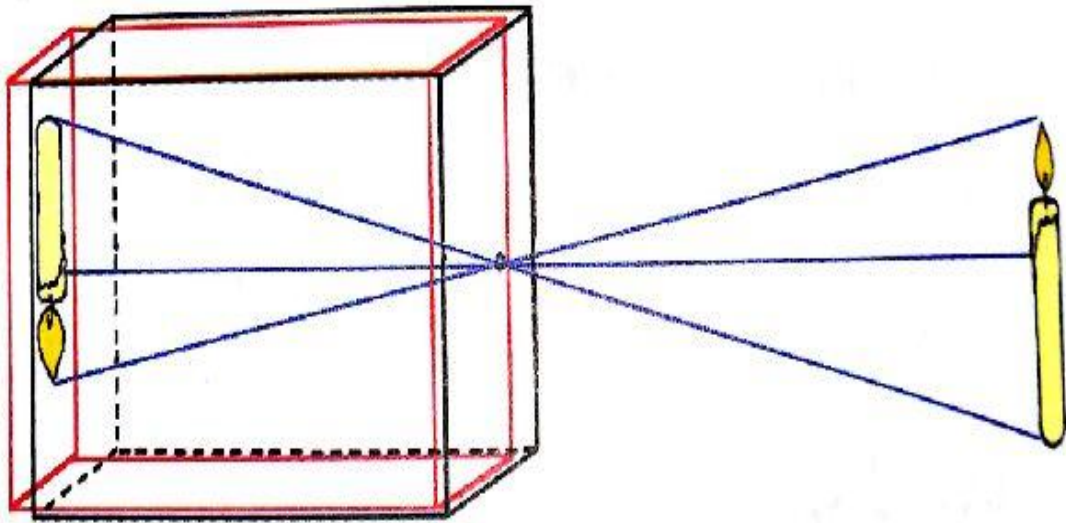
- (i) Name and define the process shown here.



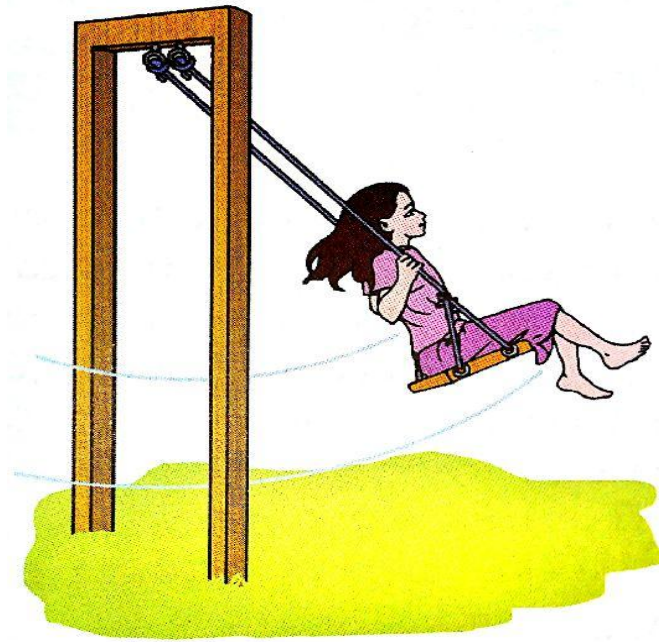
- (ii) Identify the device shown below and mention which energy changes into what to glow the bulb.



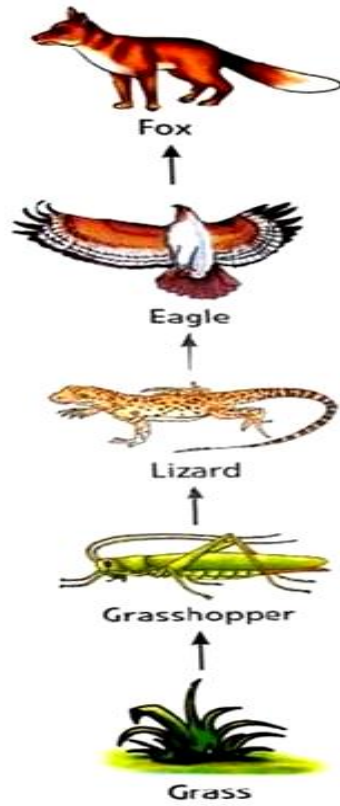
- (iii) Identify the device shown below. What type of image is produced in the picture?



(iv) Identify and define the type of motion shown below:

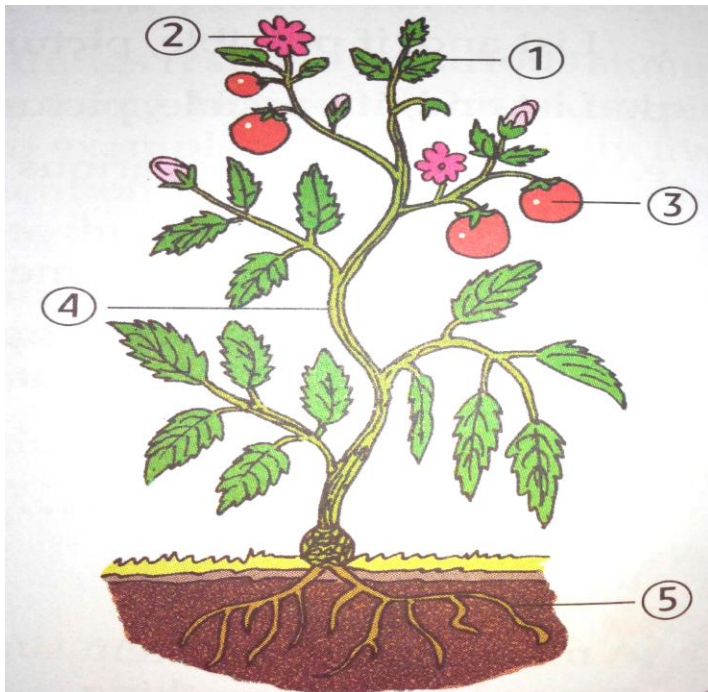


(v) Name and define the concept shown below:



Q.7. Label the parts of the plant in the given picture.

(1 × 5 = 5)



1	
2	
3	
4	
5	