

ARMY PUBLIC SCHOOL, RANIKHET
WINTER BREAK ASSIGNMENT - 2 (2020 - 21)

SUBJECT- SCIENCE

CLASS- 8TH

M.M. - 100

General Instructions:-

- All questions are compulsory
- Question paper is divided into 3 sections (Section A, B & C)
- Section A consists of 15 questions each carrying 1 mark.
- Section B consists of 10 questions each carrying 2 marks.
- Section C consists of 10 questions each carrying 2 marks.
- Section D consists of 7 questions of 5 marks each.

SECTION 'A'

VERY SHORT ANSWER TYPE QUESTIONS

I. MULTIPLE CHOICE QUESTIONS (MCQS)

(4)

1. The right meal for adolescents consists of:
 - A. Rice, noodles and burger
 - B. Chapatti, dal, vegetable
 - C. Chips, noodles
 - D. Vegetable cutlets, chips and lemon drinks
2. Which of the following is a non - contact force?
 - A. Muscular force
 - B. Friction
 - C. Gravitational force
 - D. None of these
3. Pitch of sound depends mainly on
 - A. Amplitude
 - B. frequency
 - C. Time period
 - D. Wavelength
4. The adolescents should take care of their diets, because:
 - A. they feel hungry during this age
 - B. in teenagers the taste buds are well developed
 - C. proper diet will develop their brains
 - D. for the rapid growth in the body proper diet must be needed

II. FILL IN THE BLANKS.

(6)

- a) Asteroids are found between the orbits of _____ and _____ .
- b) The passage of an electric current through a solution causes _____ effects.
- c) To stretch the bow the archer applies a force that causes a change in its.....
- d) Sprinkling of powder on carom boardfriction
- e) The north pole of the magnet..... the north pole of another magnet.
- f) A charged bodyan uncharged body.

III. STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE OR FALSE

(3)

1. Diabetes is caused due to deficiency of insulin hormone.
2. One ovum is release from ovary on every 15 days.
3. We can increase pressure by decreasing surface area on which force is applied.
4. A change in the speed of an object or the direction of its motion or both implies a change in its state of motion.
5. Insufficient levels of insulin in blood leads to diabetes.
6. Sum of two forces working on an object in opposite directions is always zero.

IV. DEFINE THE FOLLOWING.

(2)

1. Comet
2. Meteorite

SECTION 'B'
SHORT ANSWER TYPE QUESTIONS

- I. ANSWER THE FOLLOWING QUESTIONS IN BRIEF (20)**
1. Define adolescence. What do you mean by menstruation?
 2. When an inflated balloon is rubbed with a piece of synthetic cloth and pressed against a wall, then it sticks to the wall. Find the force responsible for the attraction between the wall and balloon.
 3. Draw a table showing the names of the endocrine glands and the hormones secreted by them.
 4. (a) Hormone secreted from which gland maintains the salt balance in our body?
(b) Which force is acting on a plastic bucket containing water held above ground level in your hand? Why does the force acting on the bucket not bring a change in its state of motion? Discuss.
 5. In the following situation, identify the object on which the force is acting and the object exerting the force. State the effects of the force in it.
 - a) Tooth paste is taken out from the tube.
 - b) To clear the bar at a certain height, an athlete making a high jump
 6. Paheli had heard that rainwater is as good as distilled water. So she collected some rainwater in a clean glass tumbler and tested it using a tester. To her surprise she found that the compass needle showed deflection. What could be the reasons?
 7. Sometimes, a crackling sound is heard while taking off a sweater during winters. Explain.
 8. Give reasons.
 - a) A coin kept at the base of a jar filled with water appears raised.
 - b) Most of the meteors do not reach earth.
 9. Why is the distance between stars expressed in light years? What do you understand by the statement that a star is eight light years away from the Earth?
 10. Differentiate between regular and diffused reflection.

SECTION 'B'
SHORT ANSWER TYPE QUESTIONS

- I. ANSWER THE FOLLOWING QUESTIONS IN BRIEF (30)**
1. In which situations, do you need to pull or push to change the state of motion of an object? Give two examples.
 2. What do you mean by amplitude? How is related to the loudness of sound?
 3. A blacksmith hammers a hot piece of iron while making a tool. How does the force due to hammering affect the piece of iron?
 4. Draw a table that shows the name of the endocrine glands and the hormones secreted by them.
 5. Write the relation between:- (a) Liquid pressure and increasing or decreasing depth
(b) Altitude and atmospheric pressure
 6. Name the forces acting on the rocket if the rocket is launched upward to launch a satellite into its orbit.
 7. What is a lubricant? Name a method or device by which you replace sliding friction by rolling friction. Why is static friction more than sliding friction?
 8. You spill a bucket of soapy water on a marble floor accidentally. Would it make it easier or more difficult for you to walk on the floor? Why?
 9. List three sources and three harmful effects of noise pollution.
 10. What do you mean by audible and inaudible sounds? What is the range of frequency of audible sound?

SECTION 'D'

LONG ANSWER TYPE QUESTIONS

I. ANSWER THE FOLLOWING QUESTIONS IN DETAIL (35)

1. (a) Give three examples from your daily life to show that friction is a friend and two examples of disadvantages of friction. (b) What are sex hormones? State their function.
2. Define friction. What is the purpose of using ball bearings? How does the lubricant help in reducing friction? A balloon after being rubbed with a piece of synthetic cloth sticks to the wall if pressed against it. Why?
3. List all changes that take place in human body during puberty.
4. Explain circumstances leading to acid rain. (b) Why does the increased level of nutrients in water affect the survival of aquatic organisms?
5. Explain the different causes of air pollution? Explain green house effect and global warming?
6. (I) Draw sketches to show the relative positions of prominent stars in – (a) Ursa major and (b) Orion. Explain how you can locate the pole star with the help of Ursa major. (II) Write a short note on sex determination in the unborn baby with diagram.
7. (a) When the free ends of a tester are dipped into a solution, the magnetic needle shows deflection. Explain the reason?
(b) Name four liquids, which when tested in the manner shown in the following figure, may cause the magnetic needle to deflect.

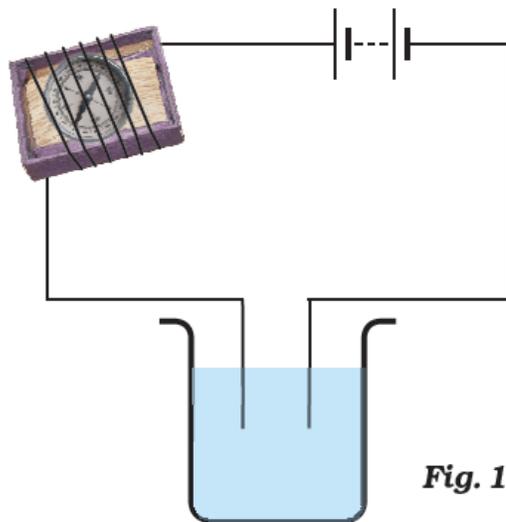


Fig. 14.9

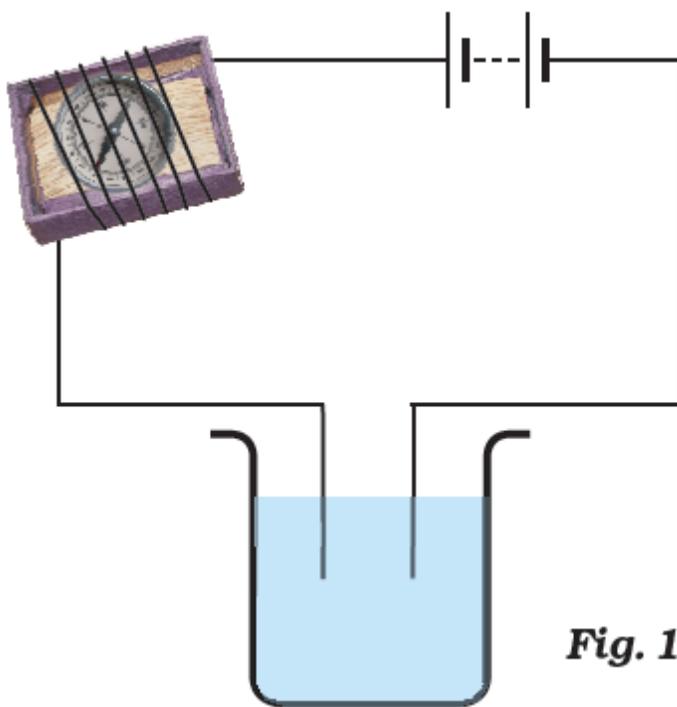


Fig. 14.9