

DWARKA INTERNATIONAL SCHOOL
SECTOR-12, DWARKA, NEW DELHI-110075
FINAL EXAMINATION
CLASS-VIII (Sample Paper) SUBJECT-SCIENCE (2019-20)

NOTE: All questions are compulsory.

M.M.:80

1. Choose the correct answer for the followings: -

(10x1=10)

- (i) _____ is the closest planet to Sun.
(a) Mercury (b) Venus (c) Mars (d) Earth
- (ii) Sound travels fastest in _____ medium.
(a) Solid (b) Liquid (c) Gaseous (d) all of these
- (iii) Asexual reproduction is not seen in _____.
(a) *Yeast* (b) *Hydra* (c) *Paramecium* (d) Earthworm
- (iv) _____ combustion produces heat, light and large amount of sound energy.
(a) Rapid (b) Slow (c) Spontaneous (d) Explosion
- (v) Vision of color is regulated by _____.
(a) Pupil (b) iris (c) rod cells (d) cone cells
- (vi) Adrenal glands secrete _____.
(a) insulin (b) estrogen (c) thyroxine (d) Testosterone
- (vii) Vibrations caused by an earthquake give rise to _____ waves.
(a) Light (b) tidal (c) seismic (d) heat
- (viii) _____ vacuole accumulates excess water and removes it from the cell.
(a) Food (b) contractile (c) central (d) all of these
- (ix) Flame of _____ zone is blue in colour.
(a) Outer (b) Middle (c) Innermost (d) None of these
- (x) _____ secretes estrogens.
(a) Adrenal (b) Pancreas (c) Ovaries (d) Testes

2. It is advised not to raise an umbrella over our head in a thunder storm. Why?

(1x1=1)

3. Why the lightning conductor is usually installed on the tallest building in the area.

(1x1=1)

4. Give reason for the followings: -

(8x1=8)

- (i) We should not touch electric wires and metallic objects during lightning
- (ii) Mars is red in colour.
- (iii) Fertilization cannot be external in land animals.
- (iv) Tadpoles that grow in water deficient in iodine fail to develop into adult frogs.
- (v) There is complete silence in space.
- (vi) Frogs lay a large number of eggs.
- (vii) The white light disperses into light of seven colours.
- (viii) Cell is the structural and functional unit of the body.

7. Answer the following questions.

(9x2=18)

- (1) State the laws of reflection with well-labeled ray diagram.
- (2) Explain with an example why the pituitary gland is called the master gland?
- (3) What is the importance of umbilical cord and placenta in human beings?
- (4) List four criteria for an ideal fuel.
- (5) What is farsightedness? How can it be corrected?
- (6) What are shooting stars? How are they formed?
- (7) How are flagella different from cilia? What are their functions?
- (8) Illustrate attraction and repulsion between charged bodies.
- (9) Name the four varieties of coal.

5. Sarita and Sam live in a fishing village in the southern tip of coastal India. A cyclone warning has been issued by the weather bureau.

(1+2=3)

- (i) List the precautions Sarita and Sam's family should take.
- (ii) What tips should they give the villagers to ensure their safety?

6. Answer the following questions.

(7x3=21)

- (i) Name and draw any three constellations.
- (ii) State the characteristics of image formed by plane mirror.
- (iii) Describe the working of a simple electroscope.
- (iv) How does the ear help us hear sounds?
- (v) How is the gender of a child determined?
- (vi) Explain menstrual cycle in females.
- (vii) How does a candle wax begin to burn? Explain.
- (viii) Explain rapid, slow and spontaneous combustion with an example of each.

8. Differentiate between plant and animal cells. Draw a well labeled diagram of a plant cell. (1x4=4)

9. Draw a well labeled diagram for following-

(2+2=4)

- (i) Structure of Human Eye.
- (ii) Structure of Human Ear

11. Answer the following questions in detail.

(2x5=10)

- 1) Name different types of endocrine glands of human body. Explain their location and functions also.
- 2) Explain male and female reproductive systems