

**DWARKA INTERNATIONAL SCHOOL**  
**SECTOR-12, DWARKA, NEW DELHI-110075**  
**FINAL EXAMINATION**  
**CLASS-VIII (Sample Paper)**  
**SUBJECT-SCIENCE (2018-19)**

**M.M.:80**

**NOTE:All questions are compulsory.**

**1.Choose the correct answer for the followings:- (5)**

- (i) \_\_\_\_\_ is the Red Planet.  
(a) Mercury            (b) Venus            (c) Mars            (d) Earth
- (ii) Vision of color is regulated by \_\_\_\_\_.  
(a) Pupil            (b) iris            (c) rod cells            (d) cone cells
- (iii) Adrenal glands secrete \_\_\_\_\_.  
(a) Testosterone            (b) insulin            (c) thyroxine            (d) estrogen
- (iv) Vibrations caused by an earthquake give rise to \_\_\_\_\_ waves.  
(a) Light            (b) tidal            (c) seismic            (d) heat
- (v) \_\_\_\_\_ accumulates excess water and removes it from the cell.  
(a) Food vacuole            (b) contractile vacuole            (c) central vacuole            (d) all of these

**2.It is advised not to raise an umbrella over our head in a thunder storm. Why? (1)**

**3. Why is it not advisable to sleep in a closed room with fire shouldering in it? (1)**

**4.Give reason for the followings:- (8)**

- (i) It is difficult to burn wet wood.
- (ii) Cell is the structural and functional unit of the body.
- (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) A lightning conductor is usually installed on the tallest building in the area.
- (vii) The white light disperses into light of seven colours.
- (viii) A full moon appears completely round.

**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.**

- (i) List the precautions Sarita and Sam's family should take.
- (ii) What tips should they give the villagers to ensure their safety? (1+2=3)

**6. Answer the following questions.**

**(8x3=24)**

- (1) Name and draw any three constellation.
- (2) State the characteristics of image formed by plane mirror.
- (3) Describe the working of a simple electroscope.
- (4) How does the ear help us hear sounds?
- (5) How is the gender of a child determined?
- (6) Explain menstrual cycle in females.
- (7) How does a candle wax begin to burn? Explain.
- (8) Explain the functions of- (i) Centriole (ii) Endoplasmic reticulum (iii) Lysosomes.

**7. Answer the following questions.**

**(8x2=16)**

- (1) Illustrate attraction and repulsion between charged body.
- (2) Name two percussion instruments. How is sound produced in such instruments?
- (3) Explain with an example why the pituitary gland is called the master gland?
- (4) What is the importance of umbilical cord and placenta in human beings?
- (5) How is flagella different from cilia? What are their functions?
- (6) List four criteria for an ideal fuel.
- (7) What is farsightedness? How can it be corrected?
- (8) What are shooting stars? How are they formed?

**8.** Calculate the angle between two mirrors if four images are formed by placing a book in between the two plane mirrors. **(2)**

**9.** Are the given frequencies in a musical note? How? 256Hz, 288Hz, 320Hz **(2)**

**10.** Anil stands 86 metres away from a tall wall of a fort and calls her friend in a loud voice. Will he hear an echo? The speed of sound in air is 344 m/s. **(3)**

**11. Answer the following questions in detail.**

**(5x3=15)**

(1) Draw a well labelled diagrams for following-

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

(2) Explain the different zones of a candle flame with well labelled diagram.

(3) Explain the process of fertilization and development of the human embryo with labelled diagram.

