

BUDHA DAL PUBLIC SCHOOL PATIALA

Final Examination (19 February 2026)

CLASS - VIII

PAPER- SCIENCE (SET-A)

M.M. 80

Time: 3 hr.

General Instructions:

1. All questions are compulsory.
2. Attempt all questions section wise in the serial order neatly and leave one line after every answer.
3. Draw neat and labelled diagrams wherever required.

Section - A

Q1. Answer the following in one word:

(8×1=8)

1. The lowest temperature at which a substance catches fire is _____
2. Which term is given for the fertilised egg?
3. What is symmetrical shape of boat, aeroplane etc called?
4. Name the master gland which controls the activities of other glands.
5. What is the phenomena of splitting of white light into its constituent seven colours called?
6. Burning of phosphorus at room temperature is an example of which type of combustion?
7. What is the audible range of a normal human ear?
8. What term is given to generation of powerful sea waves due to an earthquake under the ocean floor?

Section - B

Q2. Answer the following questions briefly:

(8×2=16)

1. What are combustible substances? Give two examples.
2. Define external fertilisation with example.
3. Write two secondary sexual characteristics in human male.
4. What are two differences between real and virtual image?
5. A gun is fired in the air at a distance of 1320 m from a person. He hears the sound of the gun after 4 seconds. What is the speed of sound?
6. What is sex chromosome? What determines the sex of a baby?
7. Write two precautions you should take inside your house during thunderstorm.
8. What is pitch of sound? State the factor on which pitch of sound depends.

Section - C

Q3. Answer the Reason based questions:

(5×2=10)

1. Why do cats always reproduce many young ones?
2. Why are we not able to hear sound on moon?
3. Why do acne and pimples appear during adolescence period?
4. Why do television screens become very dirty?

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5. Why is the top of lightning conductor always higher than the top of building?

Section - D

Q4. Answer the following:

(8×3=24)

1. Write three differences between outermost and middle zone of the candle flame.
2. Explain binary fission with the help of diagram.
3. What is menstrual cycle? What happens in the body of a female during menstrual cycle?
4. Write a note on myopia and how it can be corrected?
5. Explain three harmful effects of the pollutants produced by the combustion of fossil fuels.
6. Write three points of difference between noise and musical sound.
7. a) What is metamorphosis?
b) Explain formation of zygote.
8. Write about any three causes of earthquake.

Section - E

I) Multiple Choice Questions : (Choose the correct option)

(10×1=10)

1. The angle of incidence on a plane mirror is 45° . The angle of reflection will be
a) 30° b) 90° c) 45° d) 0°
2. The new individual is developed from
a) Sperm b) Zygote c) Ovum d) Semen
3. The hormone secreted by ovary is
a) Insulin b) Adrenalin c) Estrogen d) Thyroxine
4. Which of these is a solid fuel?
a) Diesel b) LPG c) CNG d) Coke
5. In the following question, two statements are given - one labelled Assertion (A) and other labelled Reason (R). Select correct answer to this question from codes (a), (b), (c) and (d) as given below :
Assertion (A): Acid rain reacts with limestone and marble leading to corrosion of monuments.
Reason (R) : The oxides of sulphur and nitrogen mix with rainwater and make it acidic.
a) Both A and R are true and R is correct explanation of assertion.
b) Both A and R are true but R is not correct explanation of assertion.
c) A is true but R is false.
d) A is false but R is true.
6. Sound travels fastest in
a) Liquids b) Solids c) Vacuum d) Gases
7. Which hormone is responsible for irritation and annoyance?
a) Thyroxine b) Testosterone c) Estrogen d) Adrenalin

A-2

Which of these is a string musical instrument?

- a) Tabla b) Violin c) Flute d) Drum

The point under the ground where the vibrations occur is called

- a) Seismic zone b) Focus c) Epicentre d) Seismograph

10. The process of transferring charge from a charged object to the earth is called

- a) Thunder b) Lightning c) Earthing d) Static electricity

II) Case Study Based Questions:

(7)

Friction is a force between two surfaces that are sliding or trying to slide across each other. It arises when the irregularities of the two surfaces get interlocked. Friction always works in the direction opposite to the direction in which the object is moving or trying to move.

Friction always slows down the moving object and produces heat. If you rub your hands together quickly, you will feel them get warmer. Friction can be a useful force because it prevents our shoes from slipping when we walk on the pavement and stops car from skidding on the road.

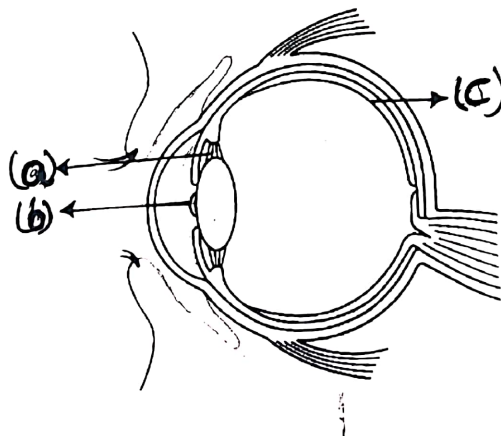
Sometimes we want to reduce friction. For example, we use oil to reduce friction between the moving parts inside a car engine. In many machines, friction is reduced by using ball bearings. The reduced friction means there is less production of heat and less wearing of moving parts of the machine.

Answer the following questions based on the above paragraph:

- What is friction?
- When does friction arise?
- In which direction does the friction arise?
- Write one situation where friction can be useful.
- How is friction reduced between the moving parts of car engine?
- Write one method to reduce friction in the machines.
- What is the benefit of reduced friction in the machine parts?

(5)

III) Diagram Based Question:



- Label parts a, b and c in the diagram of human eye.
- What are two types of cells found on the retina?
- Why does pupil appear black?

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