



BURARI PUBLIC SCHOOL

...a venture with **UNIQUE**

PT – IV ASSIGNMENT (2025-26)

CLASS: VIII

SUBJECT- SCIENCE

Date ___/___/___

Time:

M.M.: 40

Name: Roll No..... T. sign.....

General Instructions:

- (i) This assignment comprises 21 questions. All questions are compulsory.
- (ii) This assignment is divided into five sections – A, B, C, D and E.
- (iii) **Section A**-Question Nos. 1 to 10 are multiple choice type questions. Each question carries 1 mark.
- (iv) **Section B**-Question Nos. 11 to 16 are very short answer type questions. Each question carries 2 marks.
- (v) **Section C**-Question Nos. 17 to 19 are short answer type questions. Each question carries 3 marks.
- (vi) **Section D**-Question No.20 is a case-based unit of assessment carrying 4 marks.
- (vii) **Section E**-Question No.21 is a long answer type question carrying 5 marks.

SECTION A

10 Marks

Choose the correct option.

Q1. Regular reflection occurs from a _____ 1
(a) Rough surface (b) Uneven surface
(c) Smooth surface (d) Dirty surface

Q2. Which natural phenomenon is caused by dispersion of sunlight? 1
(a) Rainbow (b) Reflection
(c) Shadow (d) Eclipse

Q3. The angle between the incident ray and the normal is called _____ 1
(a) Angle of reflection (b) Angle of incidence
(c) Angle of deviation (d) Angle of refraction

Q4. Sound is produced due to: 1
(a) Reflection (b) Vibrations
(c) Heating (d) Magnetism

Q5. In which medium does sound travel the fastest? 1

(a) Air (b) Water
(c) Vacuum (d) Solids

Q6. The audible range of sound for humans is approximately: 1

(a) 2 Hz to 20 Hz (b) 20 Hz to 20,000 Hz
(c) 200 Hz to 2,000 Hz (d) 20,000 Hz to 2,00,000 Hz

Q7. The point from where the shock waves of an earthquake originate is _____ 1

(a) Focus (b) Epicentre
(c) Crust (d) Mantle

Q8. During an earthquake, it is safest to _____ 1

(a) Run outside immediately
(b) Stand near windows
(c) Take shelter under a table and be there until vibrations stop.
(d) Use the lift

For question numbers 9-10, two statements are given—one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c), and (d) as given below:

- (a) Both A and R are true, and R is the correct explanation of A.
- (b) Both A and R are true, but R is not the correct explanation of A.
- (c) A is true, but R is false.
- (d) A is false, but R is true.

Q9. Assertion (A): Sound can't travel in all medium- solid, liquid and gas.
Reason (R): In humans, sound is produced by the voice box or larynx.

Q10. Assertion (A): Deficiency of vitamin A leads to night blindness.
Reason (R): Food items such as spinach, milk and carrot are rich in vitamin A.

SECTION B

12 Marks

Q11. Name any four parts of the human eye. **2**

Q12. Draw a diagram showing various layers of earth. **2**

Q13. Name the scale that is used to for measuring: **2**

- i. magnitude of an earthquake
- ii. intensity of an earthquake

Q14. Define the following terms:

2

(a) Amplitude

(b) Time period

Q15. Give one word for the following:

2

- i. The sound of frequencies greater than 20,000 Hz.
- ii. The sound of frequencies lower than 20 Hz.

Q16. What is myopia? How can this defect be corrected?

2

SECTION C

9 Marks

Q17. Mention any three characteristics of image formed by a plane mirror.

3

Q18. Suggest three measures to protect ourselves from lightning.

Q19. i. What is noise pollution?

1

- ii. State any one harmful effect of noise pollution.
- iii. How can we reduce noise pollution?

SECTION D

4 Marks

Read the given passage carefully and answer the following questions.

Q20. Rahul was conducting an experiment with a plane mirror. He drew a line perpendicular to the mirror as the normal and shone a ray of light at an angle of 30° to this normal. He measured the angle of the reflected ray and found it was also 30° . He also noticed that the incident ray, reflected ray, and the normal all lay in the same plane.

(a) State the laws of reflection.

(b) Give two points of difference between real and virtual image.

SECTION E

5 Marks

Q21. (a) Discuss about the characteristics of sound. Name the characteristic of sound described in decibel unit.

(b) Define pitch of a sound. How does it differ from that of a man?
(c) Explain the term epicentre.