

Class \_\_\_\_\_

Marks : \_\_\_\_\_

Subject \_\_\_\_\_

Time : \_\_\_\_\_

Name: \_\_\_\_\_

Roll No. : \_\_\_\_\_

Division : \_\_\_\_\_

**Question 1**

Which type of image is formed in a plane mirror?

- A. Real, upside down
- B. Virtual, erect
- C. Real, erect
- D. Virtual, upside down

**Question 2**

What are the properties of the image formed by a plane mirror?

- A. Image is of the same size as the object.
- B. Multiple images of an object are formed.
- C. Image is at the same distance as the object.
- D. Image is virtual and erect.

**Question 3**

Below are the few words. Find out 2 words for which lateral inversion is not noticeable. MOM , TAX, HAT, WOW, MAT, HIT, MAX, HOT

- A. MOM, WOW
- B. HIT, HOT
- C. TAX, MAX
- D. MAT, HAT

**Question 4**

The mirror image of the following alphabets A, H, I, O, M

- A. Different than the original alphabets
- B. Same as the original alphabets
- C. A, H remains same but the other three will be different.
- D. O and M remains same but the other three will be different



### Question 11

What is the characteristic of the image formed by a periscope?

- A. Real with lateral inversion
- B. Real without lateral inversion
- C. Virtual with lateral inversion
- D. Virtual without lateral inversion

### Question 12

Which type of mirror is used in periscope?

- A. Plane
- B. Concave
- C. Convex

### Question 13

What is refraction of light?

- A. Bending of light rays around the edges of an obstacle
- B. Reflection of light rays around the edges of an obstacle
- C. Reflection of light rays when they change the medium of transmission
- D. Bending of light rays when they change the medium of transmission

### Question 14

Which one of the following materials cannot be used to make a lens?

- A. Water
- B. Glass
- C. Plastic
- D. Clay

### Question 15

What is responsible for twinkling of stars?

- A. Reflection
- B. Internal reflection
- C. Total internal reflection
- D. Refraction

### Question 16

A pencil placed in water appears bent. It is due to which optical phenomenon?

- A. Reflection
- B. Interference
- C. Refraction
- D. Dispersion

### Question 17

The bending of a beam of light when it passes from one medium to another is known as \_\_\_\_\_ .

- A. dispersion
- B. reflection
- C. deviation
- D. refraction

### Question 18

What is unit of refractive index?

- A. Meter
- B. Meter/second
- C. Dioptre
- D. Unitless

### Question 19

Velocity of light in vacuum is \_\_\_\_\_  $\text{ms}^{-1}$  .

- A.  $3 \times 10^6$
- B.  $3 \times 10^8$
- C.  $3 \times 10^{10}$
- D.  $3 \times 10^{15}$

### Question 20

In which situation, a ray of light is not refracted?

- A. When incident angle is more than refracted angle.
- B. When refracted angle is greater than incident angle.
- C. When incident angle is same as refracted angle.
- D. None of the above

### Question 21

For which incident angle of a ray incident on glass slab there is no refraction?

- A.  $45^\circ$
- B.  $90^\circ$
- C. = critical angle
- D.  $0^\circ$

## Question 22

A light ray is incident normally on a glass slab. What is the angle of refraction?

- A.  $0^\circ$
- B.  $45^\circ$
- C.  $90^\circ$
- D.  $1^\circ$