**Aarambh Classes**

**Class 8**

**Physics test**

**Light**

**Time : 1 hour**  **M.marks : 20**

1. **Fill in the blanks :**
2. \_\_\_\_\_\_\_\_\_\_\_reflection takes place from rough surfaces .
3. Two mirrors inclined to each other give \_\_\_\_\_\_\_\_\_\_\_\_\_images .
4. Beautiful patterns are formed in a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_because of multiple reflections .
5. Splitting of light into its constituent colors is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. Visually impaired persons can read and write using the \_\_\_\_\_\_\_\_\_\_\_.
7. A person 1 m in front of a plane mirror seems to be \_\_\_\_\_\_\_\_\_\_m away from his image .
8. The size of the pupil becomes \_\_\_\_\_\_\_\_\_\_\_\_\_when you see in dim light .
9. IF you touch your\_\_\_\_\_\_\_\_ ear with right hand in front of a plane mirror it will be seen in the mirror that your right ear is touched with \_\_\_\_\_\_\_\_\_\_\_\_.
10. Night birds have \_\_\_\_\_\_\_\_\_\_\_\_\_\_cones than rods in their eyes .
11. The \_\_\_\_\_\_\_\_\_\_\_controls the amount of light entering into the eye .
12. **Answer the following questions** :
13. State the laws of reflection .

(ii) What is the angle of incidence of a ray if the reflected ray is at an angle of 90 to the incident ray ?

(iii) Draw a labeled sketch of the human eye .

(iv) How many images of a candle will be formed if it is placed between two parallel plane mirrors separated by 40 cm ?

(v) Differentiate between diffused and regular reflection .Does diffused reflection means the failure of the laws of reflection .