

## 2. Human Eye and Colorful World

1. The value of least distance of distinct vision is about \_\_\_\_.
2. The distance between the eye lens and retina is about \_\_\_\_.
3. The maximum focal length of the eye lens is about \_\_\_\_.
4. Myopia can be corrected by using \_\_\_\_ lens.
5. Hypermetropia can be corrected by using \_\_\_\_ lens.
6. Angle of vision for a healthy human is \_\_\_\_.
7. The process of adjusting focal length is called \_\_\_\_.
8. \_\_\_\_ explained the phenomenon of scattering of light in gases and liquids.
9. The human eye forms the image of an object \_\_\_\_.
10. The splitting of white light into different colors is called \_\_\_\_.
11. The value of least distance of distinct vision is about? ( )  
a) 2.5cm                      b) 25cm                      c) 100cm                      d) 2.27cm
12. The distance between the eye lens and retina is about ( )  
a) 2.5cm                      b) 25cm                      c) 2.27cm                      d) 2cm
13. Change in the focal length of the eye lens is due to ( )  
a) Iris                      b) Cornea                      c) Ciliary Muscles                      d) Cones
14. Myopia can be corrected by using \_\_\_\_ lens. ( )  
a) Biconvex                      b) Bi Concave                      c) Plano Convex                      d) Plano Concave
15. Hypermetropia can be corrected by using \_\_\_\_ lens. ( )  
a) Bi convex                      b) Bi concave                      c) Plano Convex                      d) Plano Concave
16. The splitting of white light into different colors is called ( )  
a) Deviation                      b) Dispersion                      c) Scattering                      d) Refraction
17. The process of reemission of absorbed light in all directions with different intensities by atom or molecule is called \_\_\_\_ of light? ( )  
a) Scattering                      b) Dispersion                      c) Reflection                      d) Refraction

18. \_\_\_\_ is the essential part of the eye act as a sensitive screen? ( )

- a) Cornea                      b) Pupil                      c) Iris                      d) Retina

19. \_\_\_\_ can relax and contract, there by adjusting the size of an aperture ( )

- a) Iris                      b) Pupil                      c) Yellow Spot                      d) Blind Spot

20. The reason for the blue color of sky is due to the molecules of \_\_\_\_\_ and \_\_\_\_\_.  
( )

- a)  $\text{H}_2\text{O}$ ,  $\text{CO}_2$       b)  $\text{N}_2$ ,  $\text{O}_2$       c)  $\text{O}_2$ ,  $\text{CO}_2$       d)  $\text{H}_2$ ,  $\text{O}_2$

## Answers

- 1) 25 cm's
- 2) 2.5 cm's
- 3) 2.27 cm's
- 4) Biconcave
- 5) Biconvex
- 6) 600
- 7) Accommodation
- 8) Sir. C.V. Raman
- 9) Retina
- 10) VIBGYOR, Dispersion.
- 11) b
- 12) a
- 13) c
- 14) b
- 15) a
- 16) b
- 17) a
- 18) d
- 19) b
- 20) b.