The Human Eye and the Colourful World - Class X - Paper Set 4

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- 1. What is the power of accommodation?
 - a) The ability of the iris to change its size
 - b) The eye's ability to focus on near and distant objects by adjusting focal length
 - c) The capacity to distinguish colors
 - d) The ability to adjust light intensity
- 2. A person needs spectacles with concave lenses for clear vision. This person most likely has:

a) Hypermetropia	b) Myopia
c) Presbyopia	d) Cataract

- 3. The Sun appears red at sunrise and sunset because:
 - a) It's farther from the Earth b) Red light is least scattered
 - c) Atmospheric refraction changes its color d) Only red light reaches Earth
- 4. Which of the following is true about cataracts?
 - a) They cause the lens to become less flexible
 - b) They cause the lens to become cloudy
 - c) They cause the retina to lose sensitivity
 - d) They are corrected by using concave lenses
- 5. The Tyndall effect is observed when light:
 - a) Passes through a glass slab b) Passes through a colloidal mixture
 - c) Reflects off a mirror d) Passes through a vacuum

6. In which part of the eye does most of the focusing of light occur?

a) Retina	b) Lens

- c) Cornea d) Pupil
- 7. Why do planets not twinkle?
 - a) They are too large
 - b) They are closer to Earth and appear as extended sources
 - c) They have no atmospheric refraction
 - d) They have different colors
- 8. When sunlight is dispersed by raindrops, the resulting spectrum is called:

a) Halo	b) Rainbow
c) Mirage	d) Tyndall effect

9. What is the near point of a normal human eye?

a) 10 cm	b) 20 cm
c) 25 cm	d) 50 cm

10. What type of corrective lenses might someone with both myopia and hypermetropia use?

a) Convex lenses	b) Concave lenses
c) Bifocal lenses	d) Plane lenses

Answers for Set 4: 1-b, 2-b, 3-b, 4-b, 5-b, 6-c, 7-b, 8-b, 9-c, 10-c