

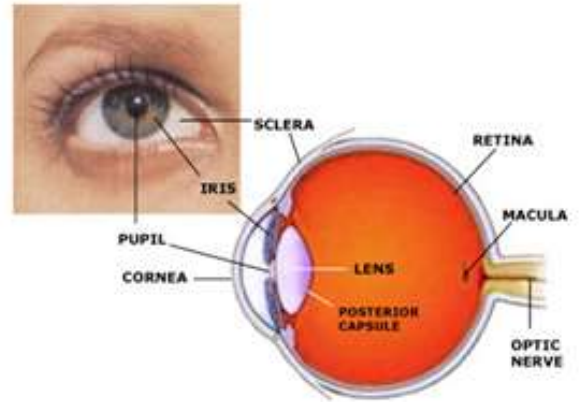
Time allowed: **3 hours**; Maximum marks: **75**

General Instructions:

- All Questions are compulsory
- The Question Paper consists of 27 Questions divided in to four sections A, B, C and D
- Section - A comprises of 3 Very Short Questions of 1 mark each
- Section - B comprises of 3 Short Questions I of 2 marks each
- Section - C comprises of 12 Short Questions II of 3 marks each
- Section - D comprises of 6 Long Questions of 5 marks each

Section - A

- Adolescents should be careful of what they eat because
 - It helps to develop their brain
 - Proper diet is necessary for the rapid growth taking place in their body
 - Adolescents feel hungry all time.
 - Taste buds are well developed in teenagers.
- Give an example in which change in shape occurs in the object on applying force?
- State the agent exerting the force, object on which it acts and its effect.
 - squeezing a lemon by fingers
 - an athlete making high jump over a certain height



Section - B

- Give one method each to increase and decrease frictional force between two surfaces?
- Name the vibrating parts of the following instruments that produce sound: flute, guitar, drum, and sitar?
- How to test the conductivity of lemon juice towards electricity?

Section - C

- Define the terms:
 - Angle of incidence
 - Angle of reflection?
- Explain the working of LED?
- Why do coolies wear turban while carrying heavy loads on their heads?
- What is menstruation? Explain.
- Define force of friction?
- State whether following is true or false and if false, correct the statement?
 - Sound depends upon the amplitude of vibration, larger the amplitude of vibration the louder is the sound.
 - Higher the frequency of vibration, the lower is the pitch and shriller is the sound.
- Differentiate between good conductors and bad conductors of electricity?
- When kitchen salt is added to water it conducts better than pure distilled water. Justify?
- What precaution would you take being outside your home to protect yourself from earthquake strikes?

16. What is myopia? How it can be corrected?
17. Why it is dangerous to burn polymers?
18. Why phases of the moon occur?

Section – D

19. What is meant by water pollution?
20. Distinguish between planet and stars?
21. Draw a diagram showing structure of human eye. Explain the function of retina of eyes?
22. Define the following
 - i. Lightning
 - ii. Richter scale
 - iii. Seismograph
23. Define contact and non-contact forces with examples?
24. Name one male and one female hormone. List the changes that occur in boys and girls during puberty?