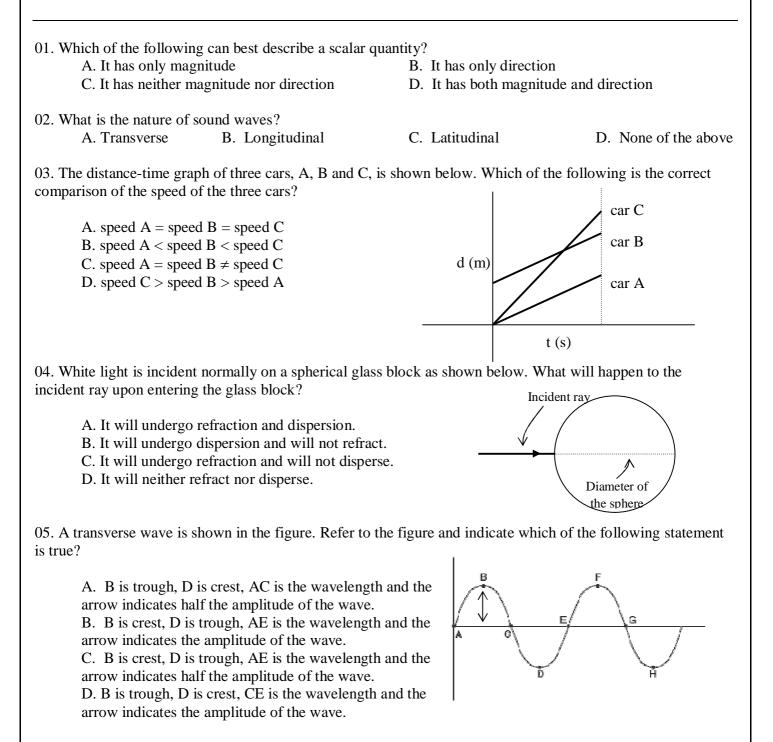
## CHINMAYA INTERNATIONAL RESIDENTIAL SCHOOL COIMBATORE

## ENTRANCE EXAM : SAMPLE PAPER (FOR ADMISSION TO ACADEMIC YEAR 2014)

## CLASS: 11 CBSE

## SUBJECT: PHYSICS

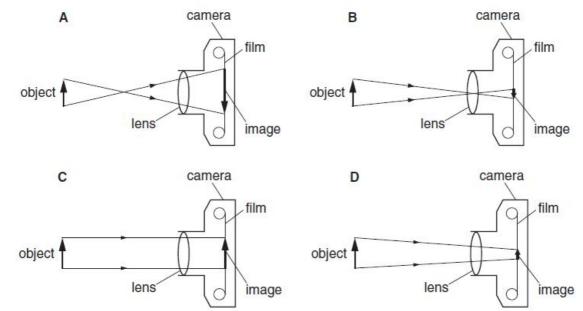


06. A car of mass 800 kg increases its speed from 0 km/s to 90 km/h in 10s. What is the force acting on the car? A. 10000 N B. 5000 N C. 2000 N D. 1000 N

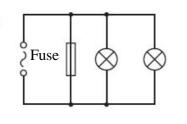
07. What is the refractive index of a glass block, if the speed of light in the glass block is  $2 \times 10^8$  m/s? Given the speed of light in air is  $3 \times 10^8$  m/s. A. 6 B. 5 C. 1 D. 1.5

08. The resistance of a wire of length 'L' is 'R' $\Omega$ . What will the resistance be if the length of the wire is increased to '2L' without changing its area of cross-section? A. 4R  $\Omega$  B. 2R  $\Omega$  C. R/2  $\Omega$  D. R/4  $\Omega$ 

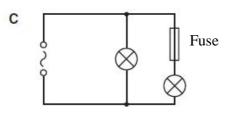
09. Which diagram correctly shows rays passing through a camera lens?

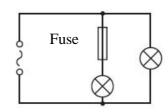


10. A student makes four circuits. In which circuit are both lamps protected by the fuse?



A





В

