



TEST PAPER: PHYSICS

Time: 45 Minutes

Class: ICSE 9th

Max. Marks: 30 Marks

Date: 27th June, 2018

Marking Scheme: Three questions carry 10 marks each. Every question has 3 subparts. Subparts A and B carry 3 marks each and subpart C carries 4 marks.

Question 1:

- A. Average speed of a car is 50 km/h. Find its speed in S.I. and C.G.S. units.
- B. Abdul, while driving to school, computes the average speed for his trip to be 20 km/hr. On his return trip along the same route, there is less traffic and the average speed is 40 km/hr. What is the average speed for Abdul's trip?
- C. An athlete runs around a circular path of circumference 360 m in 1 min and reaches the starting point. Calculate the following:
 - i. Displacement
 - ii. Distance
 - iii. Average speed
 - iv. Average velocity.

Question 2:

- A. An object travels 16 m in 4 s and then another 16 m in 2 s. What is the average speed of the object?
- B. Two athletes are running from the same place at the speed of 6 km/hr and 4 km/hr. find the distance between them after 10 minutes if they move in the opposite direction.
- C. Define:
 - i. Speed
 - ii. Velocity
 - iii. Displacement
 - iv. Distance

Question 3:

- A. A train covers a distance of 36 km in 15 minutes. Find the time taken by it to cover the same distance if its speed is decreased by 9 km/hr.
- B. State any two differences between distance and displacement. Also state its SI and CGS units.
- C.
 - i. The speed of the bicycle is 90 km/hr, what is its speed in m/sec?
 - ii. Convert 40 m/sec to km/hr
 - iii. A train moves at a speed of 80 km/hr. How far will it travel in 36 minutes?