

# Answer Sheet

## General Section

Q1: The concept of relative motion and its implications.

Q2: We are also moving with the Earth, making its motion relative to us seem negligible.

Q3: They depend on the context and the observer's assumed direction.

Q4: When there is a relation between words and context.

Q5: They are relative to the observer's position on the Earth's surface.

Q6: At rest.

Q7: Moving due west.

Q8: When an object's position is changing continuously with time relative to an observer.

Q9: The length of the path traversed by an object in a given time interval.

Q10: The shortest distance covered by the object in a specified direction.

Q11: Vector

Q12: Meter (m)

Q13: The magnitude of the vector.

Q14: When the object moves in a straight line without changing direction.

Q15: The total distance covered divided by the time taken.

Q16: The total displacement in a specified direction divided by the time taken.

Q17: Instantaneous speed.

Q18: The speed of an object in a specified direction.

Q19: Speed is constant, velocity changes.

Q20: By changing its speed, its direction of motion, or both.