

Question for General physics (Practical)/1st Year/ 2nd Semester

Q1/ In M.K.S. system, the units of length, mass and time are.....

Q2/ centimeter per second is the unit of speed in.....

Q3/ One kilometer is equal to how many miles?

Q4/ Electron volt is a unit of

Q5/ In SI system unit for speed is written as

Q6/ Length of the table is 3 m. Convert this into mm

Q7/ Current 1A is given by.....

Q8/ A painter weighing 800 newtons stands on a single board scaffold that is supported at each end by a vertical rope from above. If one rope has a tension of 550 newtons and the other has a tension of 450

newtons, what is the weight of the board?

Q9/ The tendency of objects to resist changes in their motion is called

- A. inertia.
- B. velocity.
- C. acceleration.
- D. speed.
- E. direction.

Q10/ A car traveling on a circular track at 50 km/hr

- A. is accelerating but has a constant speed.
- B. has a changing speed but a constant velocity.
- C. has a constant velocity but no acceleration.
- D. is accelerating but has a constant velocity.
- E. has a constant speed but no acceleration.

Q11/ A car on a straight track went from 0 to 60 mi/hr in 10 seconds. Its ____ was 6 mi/hr per second.

Q12/ A car travels for 10 seconds on a straight track at a constant speed of 40 m/s. What is its acceleration during this period?

Q13/ A baseball is thrown straight up with a speed of 30 m/s. What is its acceleration immediately after its release?

Q14/ A train traveled a distance of 90 kilometers in 2 hours. It would be most correct to say that its ____ was 45 km/hr.

Q15/ The speedometer in your car tells you the ____ of your car.

- A. average speed
- B. inertia
- C. acceleration
- D. velocity
- E. instantaneous speed

Q16/ An airplane flew in a straight line for 2 hours and traveled a distance of 500 kilometers; its average speed was ____ km/hr.

Q17/ The unit of force is the newton, which is equal to.....

Q18/ ____ is generally described as a push or a pull.

Q19/ The ____ of a book resting on a table is equal to the force of gravity acting on the book.

Q20/ The Moon's gravity is $\frac{1}{6}$ of the Earth's gravity. The weight of a bowling ball on the Moon would be ____ its weight on the Earth.

Q21/ Newton's Second Law of Motion says that the ____ of a body is directly proportional to the ____ and inversely proportional to the ____ of the body.

Q22/ To accelerate a 6 kg mass at 2 m/s^2 requires a net force of ____ .

Q23/ The resultant of vectors AB and AC is a vector extending from point __ to point __ .



Q24/ An airplane flying east at an airspeed of 200 km/h has a tailwind blowing from the east at 50 km/h. How far will the plane fly relative to the ground in two hours?

Q25/ ____ are examples of scalar quantities.

- A. Volume and velocity
- B. Mass and volume
- C. Acceleration and time
- D. Force and mass
- E. Velocity and acceleration