

PART -1

Write short answers to any Five (5) questions: 10

Differentiate between base quantities and derived quantities.

Define plasma physics.

Write down two rules to identify the significant figures.

Differentiate between vectors and scalars.

Define position.

i] Write down the mathematical form of the equation of motion

Write down two disadvantages of friction.

viii] Differentiate between centripetal and centrifugal force

Write short answers to any Five (5) questions: 1:

What is a solar cell? Write down its uses.

ii] Why an energy saving lamp is better than a fluorescent lamp?

iii] Define power. Write down

four] Write down the

Why does the value of 'g' vary from place to place?

i] Write the difference between like and unlike parallel forces.

Define centre of mass.

Write short answers to any FIVE (5) questions: 10

What is meant by elastic limit?

Define density and write its unit.

Write four differences between solid and gas state of matter.

What is meant by internal energy of a body?

Define specific heat capacity.

i] What is meant by transfer of heat? Write its modes.

" {vii} Upon which factors radiation depend?

ii] Why does land breeze blow in-the night?

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Ge] Derive ρ_y with the help of

Bl et 1,3

n seal we Is needed to make a body of

Ne kg to move in a circle of radius 50 cm with a

we 3ms"?

Ye] Explain any two states of equilibrium, 4

on Calculate the value of g ? at a height of 3600 km above

the surface of the earth. ,; 5

Define and explain latent heat of fusion. 4

eee A student presses her pain by her thumb with a force of

73 N. What would be the pressure under the thumb

having contact area 1.5 cm??