PART -1

te sho t answers to any Five (5) questions: 10

Different: ite between base quantities and derives

quantities.

Define plasnia physics.

Write dow?: two rules to identify the significant figures.

Differentia, > between vectors and scalars.

Define posi.?on.

i] Write down m athematical form of 3'¢ equation of motior

Write down tw 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 saver lamp is better than BN foul

lamp?

iii] Define power. W ite dow

eee \Nrite Anam ths

NY ates the value of 'g? vary from place to place?

i| Write 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?

PART. aNye: cou

ae Attempt ea are

Ge] Derive py 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??