

oe Pepere

ime (Groug=il)

= 3) any FIVE (5) questions: :

Wate any four names of base cuantity.

Ui; What do you mean by scientific notation? Give example.

Citi} What is meant by vernier constant?

Differentiate between scalars and vecors.

(V] Define acceleration and write its formula,

Describe a vector by graphically metnood.

Ivil) Define force and write its unit.

?viii) What is meant by coefficient of fristicn? Also write its vi

3 Write short answers to any FIVE (5) ques

\_L) What is meant by resultandfq au aneco®

(ii) Detine ini mee

(iii} State neu Nn

(ivy) are sili satellites?

What is meant by force of gravitation?

(vi! What are natural satellites?

(viii Define kinetic energy and potential energy.

(viii) How can you find the efficiency of system ?

Write short answers to any FIVE (5) questions:

(i) Define density and give the density of water.

LiL) What is elasticity?

(iii) Define stress and give its unit.

(iv) Define internal energy. : yer A\ cou"

[V) What is meant late ee oul

a. What are the xa iy nster cf heat? Write their names.

ong iuns conductivity.

- ace two uses of convection currents?

PART ~ II

Note: Attempt any Two questions.

(5.)(a) State and explain law of conservation of momentum. @

(b) A train starts from rest with an acceleration of  $0.5 \text{ ms}^{-2}$ , Find its

4 es

speed in  $\text{kmh}^{-1}$  | when it has moved through 100 m? a

(6.)(a) Define equilibrium. State and explain first condition of

equilibrium. r

(b) A motor boat moves at a steady speed of  $Wiz \text{ Mae Oss nce}$

acting on it is 4000 N. Calcu al ave ais

(7.)ta) Sate wt fee lic press.

(b) = qu the length of in aluminium bar 2m long

heated from  $0^{\circ}\text{C}$  to  $20^{\circ}\text{C}$ . The thermal coefficient of

. linear expansion of aluminium iø 2 sto"  $\text{KT}^{-1}$  " 5