(i} Define preties and give two @emple.

Deine force and write down is Si unis.

Stee the law of conservation of momentum.

Whet is meant by base umits and derived uns?

Write any hvo diferences belween mess and weight

glagia

Detne random motion and wite down one example.

tae down the Suis oftempereve eecbic comer!

Describe law of gravitation end Newton's third tae cf

mocion.

| How tie vailue of ?g' varies with attitude?

(wi. | DeSine Work and tis SI ut.

Whetis meant by Power and Wet?

a

?Unite skort answers to any Four (4) quesiors: c

Ydhy does the atmospheric pressure vary wih weg

| bh)- Stéte Hooks Law. ©

{iii} ~ Define pressure and write its formula. om

Differentiate between temperature ard fie}, | eo

Define latent heat of jde

Conduct ine cea Haw net take place in gases, give .

n

reason

t by Convection Current?

rite two uses of good conductors.

Parttalll

Note: Attempt any TWO questions. \

[5] (a) Derive the second equation of motion with the help of speed time graph.

(b) How much the force of friction between a wooden block of mass 5'kg and the horizontal marble floor? The coefficient of friction between wood and the marble is 0.6.

(6 } (a) What is meant by Kinetic Energy? Derive its equation. ~~

(b) A force is acting on a body mang an are ?Kt oe with the horizontal. The oa force is 20 N. Find ve rc

am (a) Derive? an eq Vi ang ae

?

inah

?_ ree oe to inciease the

0 f 5 kg of water from 10°C to 65° C.