PHYSICS FORM TWO NECTA 2010.

Solutions from: Maktaba by TETEA

by Yohana Lozaro

1

i	ii	iii	iv	v	vi	vii	viii	ix	x
B	B	A	B	C	3150 J	C	A	C	B

xi	xii	xiii	xiv	xv	xvi	xvii	xviii	xix	xx
B	D	D	A	C	A	B	B	B	C

2.

i	ii	iii	iv	v	vi	vii	viii
B	E	A	L	H	F	I	NO ANSWER

3. (a)temperature

(b)(i)Floating objects on fluids

(ii)hydrometer

(c)staight line

4.(a)mass of liquid = 75 – 50 =25g

Density = mass/ volume

= 25 / 20

Density of liquid is 1.25 g/cm^3

(b)Relative density = 1.25/1 = 1.25

5.(a)Power is the rate of doing a work.

(b) power = workdone/time taken

= (75 x 10 x 12 x 0.2)5

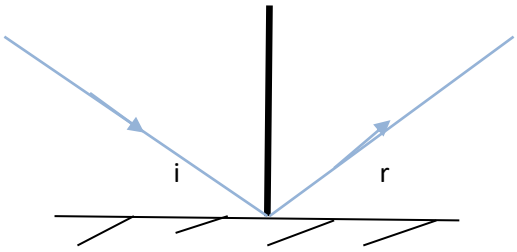
Power = 360 W

6. (a)Laws of reflection

- angle of incidence equals to angle of reflection

-the incidence ray,reflected ray and normal al lie on the same plane on the mirror

(b)



(c)Anle of incidence is equals to equal angle of reflection

7.(a)(i)Acceleration = velocity change/time

= (25/6 – 0)/10

Accelertion is 0.417 m/s^2

(ii)distance, $s = ut + ½ at^2$

$= 0 \times 10 + ½ \times 0.417 \times 10^2$

Distance covered = 20.8 m

(b) $a = -1.8\ m/s^2$ v = 0 m/s, u = 25/6 m/s given, time = t

From, v = u + at

0 = 25/6 - 1.8t

Time used = 2.3 seconds

8.(a) in series, emf, 1/E = 1/1.5 + 1/1.5

Emf = 0.75 V

R = 2 + 2 = 4Ω

Current = 0.75/4 = 0.188 A

(b)in parallel

E = 1.5 + 1.5 = 3V

1/r = ½ + ½ , r = 1Ω

Current = 3/1 = 3A

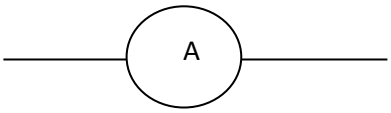
9.(a)Atmospheric pressure is the pressure of the surrounding atmospere.

(b) From, P = density x g x mmHg

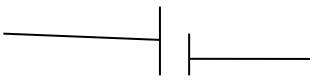
= 13600 Kg/m^3 x 10 x 0.65

= 86659.56 N/m^2

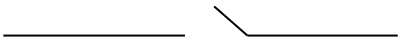
10. (a)(i)



(ii)



(iii)



(iv)