



**SEKOLAH BERASRAMA PENUH
BAHAGIAN PENGURUSAN SEKOLAH BERASRAMA PENUH/ KLUSTER
KEMENTERIAN PELAJARAN MALAYSIA**

PEPERIKSAAN PERCUBAAN PMR 2008

**SKEMA PEMARKAHAN
SAINS
(KERTAS 1 & KERTAS 2)
55/1 & 55/2**

PEPERIKSAAN PERCUBAAN PMR 2008
SEKOLAH BERASRAMA PENUH

SKEMA JAWAPAN KERTAS 2

QUESTIONS	RUBRIC	MARKS												
1 (a)	(i) L : Element M : Mixture N : Compound	1 1 1	3											
	(ii)													
	Substance <table style="width: 100%; text-align: center;"> <tr> <td>L</td> <td>—</td> <td>Gold</td> <td>1</td> </tr> <tr> <td>M</td> <td>—</td> <td>Water</td> <td>1</td> </tr> <tr> <td>N</td> <td>—</td> <td>Brass</td> <td>1 3</td> </tr> </table>	L	—	Gold	1	M	—	Water	1	N	—	Brass	1 3	
L	—	Gold	1											
M	—	Water	1											
N	—	Brass	1 3											
	TOTAL		6											
2 (a)	(i) Moves inwards / towards the boiling tube	1												
	(ii) Air pressure outside the boiling tube push the indicator // The higher atmospheric pressure push the indicator	1												
(b)	To absorb carbon dioxide	1												
(c)	Move inwards / towards the boiling tube	1												
(d)	Method : Use / (The gas is) Mixed with / Passed through lime water Result : Turns / change to cloudy / chalky / milky	1 1	2											
	<i>* Notes: do not accept if student just write "lime water" only</i>													
	TOTAL		6											
3 (a)	(i) Protein	1												
	(ii) Milk // Egg // Fish // Any suitable answer	1												
(b)	Brick red precipitate is formed	1												
(c)	Kwashiorkor	1												
(d)	(i) Stomach	1												
	(ii) amino acids	1												

	TOTAL		6
4 (a)	Endoskeletal / Endoskeleton system	1	
(b)	(i) Exoskeletel / Exoskeleton system (ii) Hydroskeletal / Hydroskeleton system	1 1	2
(c)	Buoyancy // Buoyancy of water	1	
(d)	(i) -Its skeletal system not able to support its huge body weight. -Its weight will crush its internal organ	1 1	2
	TOTAL		6
5(a)	(i) The stoma is closed during hot day while the stoma is opened during cool humid day.	1	
	(ii) - hot day – stoma closed to reduce excessive lost of water. - cool humid day - stoma is opened to allow the exchange of gasses.	1 1	2
(b)	Guard cell	1	
(c)	Control the closing and opening of the stoma / stomata	1	
(d)	(i) Transpiration	1	
(d)	(ii) It cools the plant // Get rid of excess water // Concentrate the sap in the plant // Set up a pulling force // Helps to draw water from the soil // Helps in the transportation of water and minerals in plant	1	
	(iii) Humidity // Temperature // Wind // Light // Surface area of leaves.	1	
	TOTAL		8
6(a)	(i) Permanent / irreversible increase in body size / number of cells / weight / change in body shape / function of organism	1	
	(ii) P : Infancy S : Adulthood	1 1	2
(b)	(i) X	1	
	(ii) Stage : Adolescence // R Reason : Female reach puberty earlier than male	1 1	2
(c)	- Carbohydrate - Teenagers are very active and need a lot of energy.	1 1	2
	TOTAL		8
7(a)	P : Series circuit Q : Series circuit R : Parallel circuit S : Series circuit	1 1 1 1	4

(b)																					
8(a)	55	1																			
(b)	<p>(i) Manipulated variable : Mass of load // Force exerted on the spring // Weight of load</p> <p>(ii) Responding variable : Position of the pointer // pointer reading // extension of spring</p> <p>(iii) Constant variable : Type of spring // initial reading of the pointer</p>	1 1 1	3																		
(c)	<table border="1"> <thead> <tr> <th>Mass of load /g</th> <th>Force /N</th> <th>Extension of spring /cm</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>1</td> <td>2</td> </tr> <tr> <td>200</td> <td>2</td> <td>4</td> </tr> <tr> <td>300</td> <td>3</td> <td>6</td> </tr> <tr> <td>400</td> <td>4</td> <td>8</td> </tr> <tr> <td>500</td> <td>5</td> <td>10</td> </tr> </tbody> </table> <p>Notes: 4 corrects = 3m 3 corrects = 2m 2 corrects = 1m 1 correct = 0m</p>	Mass of load /g	Force /N	Extension of spring /cm	100	1	2	200	2	4	300	3	6	400	4	8	500	5	10	1 1 1	3
Mass of load /g	Force /N	Extension of spring /cm																			
100	1	2																			
200	2	4																			
300	3	6																			
400	4	8																			
500	5	10																			

(d)	Refer to appendix 1: At least 3 points mark correctly = 1 mark The shape of graph is a straight line graph = 1 mark	1	2
(e)	(i) 9 (ii) The extension of spring is directly proportional to the force exerted on it // The higher the force, the higher the extension of spring.	1	1
(f)	The increase in length when the load is exerted.	1	1
TOTAL		12	

Extension of
spring / cm

APPENDIX 1

