

TERHAD

SULIT



**MAJLIS PENGETUA SEKOLAH MALAYSIA (MPSM)  
CAWANGAN KELANTAN**

**55**

**PEPERIKSAAN PERCUBAAN  
PENTAKSIRAN TINGKATAN 3 ( 2016 )**

**SAINS  
Ogos 2016  
Masa : Dua Jam**

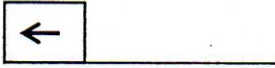
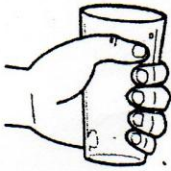


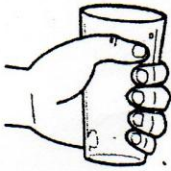


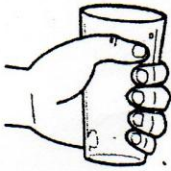


*UNTUK KEGUNAAN PEMERIKSA SAHAJA*

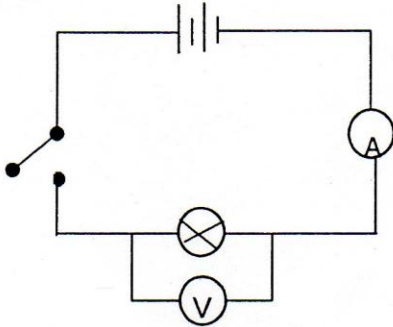
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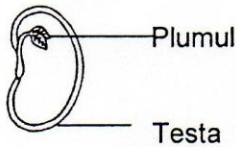
**PANDUAN  
PENGSKORAN**

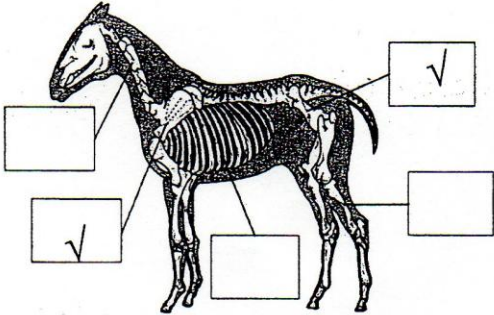
[ Lihat Sebelah

No.	Mark Scheme	Marks	
		Sub	Total
1.(a)	Able to state the right answer <u>Answers:</u> i) Stereoskopik  ii) Monokular	1	2
		1	
(b)	Able to tick the right answers <u>Answers:</u> i) ✓  ii) ✓	1	2
		1	
			4
2.(a)	Able to match <u>Answers:</u>  <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="border: 1px solid black; padding: 5px; width: 150px; text-align: center;">Larutan pekat</div> <div style="border: 1px solid black; padding: 5px; width: 150px; text-align: center;">Larutan tepu</div> <div style="border: 1px solid black; padding: 5px; width: 200px; text-align: center;">Mengandungi kuantiti zat terlarut yang maksimum dalam pelarut.</div> <div style="border: 1px solid black; padding: 5px; width: 200px; text-align: center;">Mengandungi sedikit zat terlarut dalam pelarut</div> <div style="border: 1px solid black; padding: 5px; width: 200px; text-align: center;">Mengandungi banyak zat terlarut dalam pelarut</div> </div>	1+1	2
(b)	Able to identify the statements <u>Answers:</u> i) Palsu  ii) Benar	1	2
		1	
			4

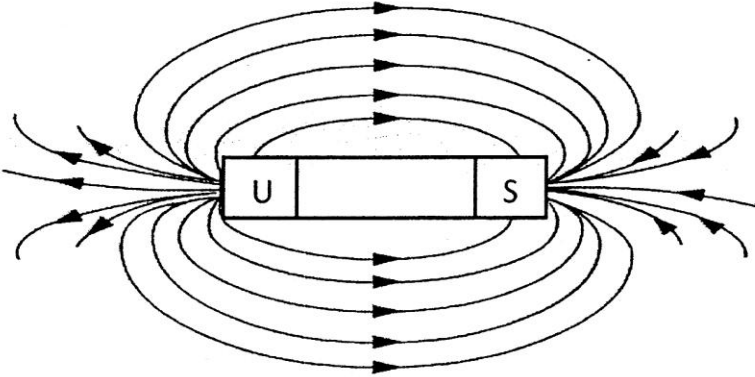
No.	Mark Scheme	Marks							
		Sub	Total						
3(a)	<p>Able to give the right direction</p> <p><u>Answer:</u></p> <div style="text-align: center;">  </div>	1	1						
(b)	<p>Able to complete the statement</p> <p><u>Answer:</u></p> <p>Menentang/melawan</p>	1	1						
(c)	<p>Able to tick the right answers.</p> <p><u>Answers:</u></p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>√</td> <td></td> <td>√</td> </tr> </table>				√		√	1+1	2
									
√		√							
			4						
4.(a)	<p>Able to underline the right answer</p> <p><u>Answers:</u></p> <p>i) Hidrogen</p> <p>ii) Nebula</p>	1	2						
(b)	<p>Able to give the correct label.</p> <p><u>Answers:</u></p> <p>P: Supernova</p> <p>Q: Lohong hitam</p>	1	2						
			4						

No.	Mark Scheme	Marks	
		Sub	Total
5.(a)	Able to give correct quantity physics. <u>Answers:</u> i) K: Arus elektrik ii) L: Jisim	1	2
		1	
(b)	Able to give the correct SI unit. <u>Answers:</u> i) K: Ampere ii) L: Kilogram	1	2
		1	
(c)	Able to to give the correct way. <u>Answers:</u> P1 Menggunakan unit SI ( $\text{cm}^3$ ) P2 untuk menyukat isipadu air.  atau;  P1 Menggunakan unit SI (kg) P2 untuk menyukat jisim garam.	1+1	2
			6
6.(a)	i) Able to draw the complete circuit <u>Answer:</u> 	2	2
		2	
	ii) Able to state type of circuit <u>Answer:</u> Litar bersiri		1
		1	

No.	Mark Scheme	Marks	
		Sub	Total
(b)	i) Able to calculate the value of M and N. <u>Answers:</u> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <math display="block">R = \frac{4.5}{3}</math> <math display="block">= 1.5 \Omega</math> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <math display="block">R = \frac{7.5}{5}</math> <math display="block">= 1.5 \Omega</math> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>M</span> <span>N</span> </div>	1+1	2
		ii) Able to state about the resistance <u>Answer:</u> Rintangan merupakan pemalar/tetap/sama	1
		1	6
7.(a)	Able to label part of the seeds. <u>Answers:</u> <div style="text-align: center; margin: 10px 0;">  </div>	1+1	2
(b)	Able to fill in the blank with the right answer. <u>Answer:</u> i) Radikel  ii) Kotiledon	1	2
		1	
(c)	Able to solve the problem. <u>Sample answers:</u> 1. Tiada kehadiran air  2. Tiada kehadiran udara  3. Suhu yang tidak sesuai  [Accept any two correct answers]	1	2
		1	
	<u>Remarks</u> Two points – 2 marks One point – 1 mark		6

No.	Mark Scheme	Marks	
		Sub	Total
8.(a)	i) Able to state the example of excretory products. <u>Sample answers:</u> 1. Oksigen 2. Karbon dikosida 3. Wap air  <u>Remarks</u> Two points – 2 marks One point – 1 mark	1+1	2
	ii) Able to state the uses of excretory products. <u>Answers:</u> Lateks: Membuat tayar/ tilam/ sarung tangan Kuinin: Membuat ubat demam malaria		2
(b)	Able to state the substance and the effect. <u>Answers:</u> P1 Kafein E1 Menyebabkan ketagihan kopi	1+1	2
			6
9.(a)	Able to tick the right parts. <u>Answers:</u> 	1+1	2




No.	Mark Scheme	Marks	
		Sub	Total
(b)	Able to give example and explain. <u>Sample answer:</u>  P1 Ikan paus/ ikan jerung/ ikan lumba-lumba  P2 Daya apungan air	1  1	2
(c)	Able to give example and explain. <u>Sample answers:</u>  P1 Akar banir  E1 Untuk memberi sokongan tambahan  P2 Duri  E2 Untuk memanjat / untuk tegak  [Accept any reasonable answer]  <u>Rubric</u> Method – 1m Explanation – 1m	1+1  1+1	4
			8
10(a)	Able to draw magnetic field lines. <u>Answer:</u>    <u>Remarks</u> If one line – 1 mark	1	1

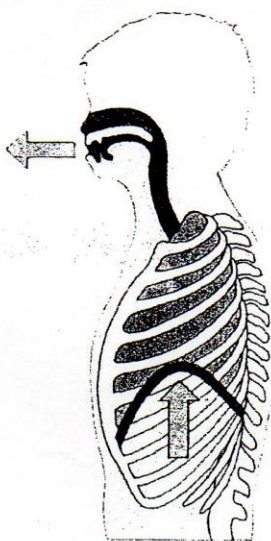
No.	Mark Scheme	Marks	
		Sub	Total
(b)	Able to give the right tool. <u>Answer:</u>  Kompas	1	1
(c)	i) Able to explain "right hand grips rule". <u>Answers:</u>  P1 Ibu jari menunjuk arah arus  P2 Arah gengaman jari menunjukkan arah garis medan magnet.	1+1	2
	ii) Able to state the shape of magnetic field. <u>Answer:</u>  Berbentuk bulatan.	1	1
	iii) Able to predict. <u>Answer:</u>  Arah garis medan magnet berubah	1	1
(d)	Able to state the uses of electromagnet. <u>Sample answer:</u>  1. Telegraf  2. Telefon  3. Kren pengangkut besi buruk  4. Pembesar suara  [Accept any other correct answer]	1+1	2
			8



No.	Mark Scheme	Marks					
		Sub	Total				
11(a)	<p>Able to complete the table.  <u>Answer:</u></p> <table border="1" style="margin-left: 20px;"> <tr> <td>Objek yang mempunyai ketumpatan tinggi</td> <td>Y</td> </tr> <tr> <td>Objek yang mempunyai ketumpatan rendah</td> <td>X</td> </tr> </table>	Objek yang mempunyai ketumpatan tinggi	Y	Objek yang mempunyai ketumpatan rendah	X	1+1	2
Objek yang mempunyai ketumpatan tinggi	Y						
Objek yang mempunyai ketumpatan rendah	X						
(b)	<p>Able to calculate.  <u>Answer:</u></p> $\text{Ketumpatan} = \frac{7.72\text{g}}{0.4\text{cm}^3}$ $= 19.3 \text{ g/cm}^3$	1+1	2				
(c)	<p>Able to explain the function float through the concept of density.  <u>Answer:</u></p> <p>P1 Di dalam pelampung mengandungi udara.</p> <p>P2 Udara kurang tumpat daripada air.</p>	1+1	2				
(d)	<p>Able to explain.  <u>Sample answers:</u></p> <p>P1 Berpaut pada kotak ais/ kotak polisterin.</p> <p>E1 Kotak ais kurang tumpat daripada air.</p> <p>P2 Berpaut pada serpihan kayu sampan</p> <p>E2 Kayu kurang tumpat daripada air.</p> <p>Remarks                      P1, E1, P2, E2 (independence)</p>	1 1 1 1	4				
			10				

No.	Mark Scheme	Marks	
		Sub	Total
12(a)	Able to state R and S. <u>Answers:</u> R: Stesen jana kuasa turbin gas S: Stesen jana kuasa Nuklear	1 1	2
(b)	Able to state the sources. <u>Answers:</u> R: Gas asli/ Petroleum S: Bahan radioaktif/ Plutonium/ Uranium	1 1	2
(c)	Able to explain how electricity can produce by biomass. <u>Sample answers:</u> P1 Menggunakan sisa dan bahan kumuh haiwan (najis). / Pelepah dan tandan kelapa sawit/ Biojisim P2 Penguraian menghasilkan gas metana (biogas)/ menghasilkan biodiesel P3 Gas metana memutarakan turbin. P4 Putaran turbin menghasilkan tenaga elektrik	1 1 1 1	4
(d)	Able to state the good practice. <u>Sample answers:</u> 1. Tutup suis kipas dan lampu apabila meninggalkan kelas. 2. Berkongsi kereta ke sekolah. [Accept any reasonable answer]	1 1	2
			10

No.	Mark Scheme	Marks	
		Sub	Total
13(a)	<p>Able to sketch the human cell. <u>Sample answer:</u></p>  <p>P1 Sel darah merah P2 Mengangkut oksigen [Accept any human cells]</p>	1  1 1	3
(b)	<p>Able to complete the flow chart. <u>Answers:</u></p> <pre> graph LR   Sel[Sel] --&gt; Tisu[Tisu]   Tisu --&gt; Organ[Organ]   Organ --&gt; Sistem[Sistem]   Sistem --&gt; BadanManusia[Badan Manusia]             </pre>	1+1	2
(c)	<p>i) Able to name the system and its function. <u>Answers:</u></p> <p>P1 Sistem peredaran darah. P2 Mengangkut darah ke seluruh badan.</p> <p>ii) Able to suggest the way. <u>Sample answers:</u></p> <ol style="list-style-type: none"> <li>Menghindari tabiat merokok</li> <li>Elakkan makan makanan berkolestrol tinggi (berlemak)</li> </ol> <p>(accept any reasonable answers)</p> <p>iii) Able to state one example of system. <u>Sample answer:</u></p> <ol style="list-style-type: none"> <li>Sistem perkumuhan</li> </ol> <p>[Accept any system of human]</p>	1 1  1 1  1	2  2  1

No.	Mark Scheme	Marks	
		Sub	Total
(d)	<p>Able to explain.  <u>Sample answer:</u></p> <ol style="list-style-type: none"> <li>Mempunyai akal untuk berfikir.</li> <li>Boleh melakukan pelbagai aktiviti yang tidak boleh dilakukan oleh organisma lain.</li> <li>Mempunyai banyak sel yang diorganisasikan oleh tisu, organ dan sistem/ dapat menjalankan tugas secara berasingan.</li> <li>Fungsi system dalam badan manusia saling berkaitan.</li> </ol> <p>[Accept any two reasonable answer]</p>	1+1	2
		14(a)	<p>i) Able to give the meaning.  <u>Answer:</u></p> <p>Hembusan nafas ialah proses udara (karbon dioksida) ditolak keluar dari peparu.</p> <p>ii) Able to sketch and explain.</p>
		1+1	5

No.	Mark Scheme	Marks	
		Sub	Total
	<p><u>Rubric</u>                      Sketch – 1m                      Arrow – 1m                      Explanation – 3m</p> <p>E1 Tulang rusuk turun ke bawah dan ke dalam.                      E2 Diafragma mengendur/ melengkung ke atas.                      E3 Isipadu rongga toraks berkurang.                      E4 Tekanan udara dalam peparu/ rongga toraks bertambah.                      E5 Udara dipaksa keluar                      [Accept any three explanations]</p>	1+1 +1	
(b)	<p>Able to complete the table.  <u>Answer:</u>                      i) Lebih banyak                      ii) Kurang                      iii) Lebih banyak                      iv) Kurang</p>	1 1 1 1	4
(c)	<p>Able to suggest to less risk.  <u>Sample answers:</u>                      1. Menghindari tabiat merokok.                      2. Memakai topeng muka apabila berada di luar rumah.                      3. Mengurangkan aktiviti luar.                      [Accept any two reasonable answer]</p>	1 1	2
			12