

PEPERIKSAAN PERCUBAAN PMR 2010

**SUGGESTED MARKING SCHEME
SCIENCE
PAPER ONE (55/1)
FORM THREE**

QUESTION NO.	ANSWER	QUESTION NO.	ANSWER
1	A	21	A
2	B	22	B
3	B	23	D
4	B	24	C
5	B	25	D
6	C	26	B
7	A	27	A
8	D	28	D
9	C	29	B
10	C	30	D
11	C	31	C D
12	A	32	A
13	C	33	D
14	B	34	D
15	C	35	A
16	A	36	D
17	D	37	D
18	C	38	C
19	B	39	A
20	A	40	B

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PEPERIKSAAN OTI 3 (PERCUBAAN PMR) TAHUN 2010

FORM THREE

MARKING SCHEME

SUBJECT CODE		55 / 2
SUBJECT		SCIENCE
PAPER		TWO

QUESTION SOALAN	ANSWER IN ENGLISH VERSION / JAWAPAN DALAM VERSI BAHASA MELAYU	MARK MARKAH
1	<p>a. A student should be able to write</p> <p>P : Protein/protein Q : Fibre/Fiber R : Carbohydrate/karbohidrat</p>	3 marks
	<p>b. A student should be able to match</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <div style="border: 1px solid black; padding: 2px; display: inline-block;">P</div> ○ _____ ○ </div> <div style="border: 1px solid black; padding: 5px; width: 250px;"> Build new tissue and replace dead tissue <i>Membina tisu baru dan menggantikan</i> </div> </div> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;"> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Q</div> ○ </div> <div style="border: 1px solid black; padding: 5px; width: 250px;"> Supply our body with energy <i>Membekalkan tenaga kepada badan</i> </div> </div> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;"> <div style="border: 1px solid black; padding: 2px; display: inline-block;">R</div> ○ </div> <div style="border: 1px solid black; padding: 5px; width: 250px;"> Help in defecation and prevent constipation <i>Membantu pembuangan najis dan mencegah sembelit</i> </div> </div>	3 marks
2	<p>a. A student should be able to write</p> <p>i. P ii. Black paint /absorb heat better iii. Radiation</p>	1 mark 1 mark 1 mark

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	b.	A student should be able to write			1 mark
		The surface condition of the object <i>Keadaan permukaan object</i>	Explanation <i>Penerangan</i>	True/False <i>Betul/Salah</i>	
		Dark dull surface <i>Permukaan hitam legap</i>	Absorb heat better <i>Menyerap haba dengan baik</i>	TRUE	
		Shiny surface <i>Permukaan berkilat</i>	Give out heat Better <i>Membebaskan haba yang baik</i>	FALSE	
	c.	A student should be able to write To prevent explosion / to prevent absorption of heat			1 mark
3	a.	A student should be able to write i) carbon dioxide // <i>karbon dioksida</i> ii) calcium oxide / quicklime // <i>kalsium oksida/kapur tohor</i> iii) calcium/carbon/oxygen			1 mark 1 mark 1 mark
	b.	A student should be able to write i) metal sulphide// <i>logam sulfida</i> ii) Both corrects 1 mark <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin: 0 5px;">Iron <i>Besi</i></div> <div style="margin: 0 5px;">+</div> <div style="border: 1px solid black; padding: 5px; margin: 0 5px;">Sulphur sulfur</div> <div style="margin: 0 5px;">→</div> <div style="border: 1px solid black; padding: 5px; margin: 0 5px;">Iron sulphide <i>Besi sulfida</i></div> </div> <div style="margin-left: 100px;"> heat <i>panaskan</i> </div> iii) metals react with sulphur at different rate / magnesium reacts very fast with sulphur / copper react slowly with sulphur			1 mark 1 Mark 1 mark

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4	a	<p>A student should be able to write</p> <p>(i) Yes</p> <p>(ii) She push a trolley through a distance P to Q</p>	<p>1 mark</p> <p>1 mark</p>
	b	<p>A student should be able to calculate</p> <p>i) Work done = Force x Distance = 450 N x 3 M = 1350 J</p> <p>ii) Power (W) = $\frac{\text{Work done (J)}}{\text{Time taken (S)}}$ = $\frac{1350 \text{ J}}{9 \text{ S}}$ = 150 W</p>	<p>2 marks</p> <p>2 marks</p>
5	a.	<p>A student should be able to write</p> <p>(i) parallel circuit</p> <p>(ii) - the current flows through more than one path/ - If one bulb burnt of, the other bulb will light up/ - Each bulb receives the full voltage from the electrical source</p> <p>(iii) Add more batteries./ dry cells / voltage</p>	<p>1 mark</p> <p>1 mark</p> <p>1 mark</p>
	b.	<p>A student should be able to write</p> <p>the brightness of the bulbs are dimmer.</p>	<p>1 mark</p>
	c.	<p>A student should be able to calculate</p> <p>Voltage = Current x Resistance = 2 A x 4Ω = 8 V</p>	<p>1 mark</p> <p>1 mark</p>

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	d.	A student should be able to write bulb K has short wire / lower resistance, (vice versa)	1 mark
	e.	A student should be able to write Each electrical component can be controlled by separate switches. (or any suitable answer)	1 mark
6	a.	A student should be able to write i. Day time , noon, 11.00 am, 12.00 pm ...any acceptable time <i>Siang hari , tengahari , siang , 11.00 pagi, 12.00 tgh ..mana-mana jam yang sesuai</i> ii. Water lost through transpiration is more than it absorbed <i>Air yang hilang melalui transpirasi lebih banyak berbanding air yang diserap</i>	1 mark 1 mark
	b.	A student should be able to write i. The presence of wind <i>Kehadiran angin</i> ii. Dry weather(situation)/less humid <i>Keadaan(Cuaca)kering /kurang lembab</i>	2 marks
	c.	A student should be able to write K transport water / K is xylem <i>K mengangkut air/K adalah xylem</i>	1 mark
	d.	A student should be able to write i. Food(Glucose) accumulated/Food(Glucose) cannot be transported to the lower part <i>Makanan(Glukos) terkumpul/Makanan(Glukos) tidak dapat di angkut ke bahagian bawah</i> ii. The upper part receive water and food/Glucose meanwhile the lower part only receive water but not food/glucose/food cannot be transported down	1 mark 2 marks
7	a	A student should be able to state characteristic of any four based on observation : P: using roller Q: using wheel	1 for every characteristic (max. 4)

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		R: using wheel S: applying oil	
	b	A student should be able to classify into two groups <div style="display: flex; justify-content: space-around;"> <div>Using wheel Q,R</div> <div>Not using wheel P,S</div> </div> <div style="text-align: center;">or</div> <div style="display: flex; justify-content: space-around;"> <div>Using roller P</div> <div>Not using roller Q, R, S</div> </div> <div style="text-align: center;">or</div> <div style="display: flex; justify-content: space-around;"> <div>Using oil S</div> <div>Not using oil P,Q, R</div> </div>	2 – in pairs 2 marks
	c	A student should be able to write The heavier the weight, the higher the friction.	1 mark
8	a	A student should be able to write i) The brightness of bulb Q is higher than bulb P// Bulb Q brighter than bulb P ii) The brightness of bulb is depend on the number of turns on the secondary coil iii) 4.6 V	1 mark 1 mark 1 mark
	b	A student should be able to write 16	1 mark
	C	A student should be able to write i) number of turns on the secondary coil ii) voltmeter reading iii) number of turns on the primary coil	3 marks

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d	<p>number of turn on secondary coil bilangan lilitan pada gegelung sekunder</p>	2 marks
e	A student should be able to write The higher the number of turns on the secondary coil, the higher the voltmeter reading	1 mark
f	A student should be able to write Step up transformer is the voltmeter reading	1 mark