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PEPERIKSAAN PERCUBAAN PMR TAHUN 2011

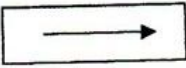
FORM THREE
MARKING SCHEME

SUBJECT CODE	55 / 2
SUBJECT	SCIENCE
PAPER	TWO

QUESTION SOALAN	ANSWER IN ENGLISH VERSION / JAWAPAN DALAM VERSI BAHASA MELAYU	MARK MARKAH
1	a. Childhood 3 – 13 years Adolescent 13 – 20 years Adult 20 – 65 years	3 marks
	b. i) P ii) The growth of sexes at the same rate (J) At the beginning of this stage the growth for girls is more than boy (L)	1 mark 2 marks
2	a. Iron sulphide	1 mark
	b. i) K ii) J, L, K iii) Magnesium, sulphur	1 mark 1 mark 1 mark
	c. i) Magnesium oxide ii) Supply oxygen	1 mark 1 mark
3	a. i) to filter blood ii) pelvis	1 mark 1 mark
	b. Transplant kidney, haemodialysis	1 mark
	c. i) to treat kidney failure patient/ remove waste product from the blood filter blood. ii) Can iii) Blood can filter even by one kidney.	1 mark 1 mark 1 mark
4	a. i)  ii) chlorophyll	1 mark 1 mark
	b. Q→P →R→S	1 mark

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	c	i) Put water weeds/plants ii) Water weeds/plants undergo photosynthesis and produce oxygen for the fish	1 mark 2 marks							
5	a.	i)  ii) Black dull surface is a good absorber of heat.	1 mark 1 mark							
	b.	Less hot Bright color is good reflector of heat/poor absorber of heat.	1 mark 1 mark							
	c.	i) Heat content in Q is more than P ii) <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"><u>Type of surface</u></td> <td style="width: 50%;"><u>Characteristic</u></td> </tr> <tr> <td>Dull black surface</td> <td>Good radiation of heat</td> </tr> <tr> <td style="text-align: center;">Or</td> <td style="text-align: center;">or</td> </tr> <tr> <td>White shiny surface</td> <td>poor radiator of heat</td> </tr> </table> iii) increase poor heat radiator/heat not release efficiently	<u>Type of surface</u>	<u>Characteristic</u>	Dull black surface	Good radiation of heat	Or	or	White shiny surface	poor radiator of heat
<u>Type of surface</u>	<u>Characteristic</u>									
Dull black surface	Good radiation of heat									
Or	or									
White shiny surface	poor radiator of heat									
6	a.	i) Live wire carries electric current to the house while neutral wire carries electrical current from the house.	1 mark							
	b.	i) House A – single phase/ House B –three phase	1 mark							
		ii) House A – use one air conditioner only/used less electric current/voltage 240 V House B – use more air conditioner/ used more electric current/415 V	1 mark							
	c.	i) Q ii) 1.5 A	1 mark 1 mark							
d.	Electrical fire/ short circuit.	1 mark								
7	a	i) <table border="0" style="margin-left: 40px;"> <tr> <td></td> <td>Output voltage</td> </tr> <tr> <td>J</td> <td>14</td> </tr> <tr> <td>L</td> <td>8</td> </tr> </table>		Output voltage	J	14	L	8	2 marks	
			Output voltage							
		J	14							
		L	8							
ii) Transformer K is to increase output voltage but transformer L is to decrease output voltage.	1 mark									
iii) If the number of turns on secondary coil increase, the output voltage will increase.	1 mark									
iv) Output voltage is increase because number of turns on primary coil is lower than secondary coil	1 mark									

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