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**SCIENCE**

**1113/01**

Paper 1

**For Examination from 2012**

SPECIMEN MARK SCHEME

**45 minutes**

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**MAXIMUM MARK: 50**

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This document consists of **6** printed pages.



<b>Question</b>	<b>1</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
<b>(a)</b>	3	A cytoplasm B cell wall C nucleus	
<b>(b)</b>	1	for photosynthesis / to absorb light	
<b>(c)</b>	2	cell wall (large) vacuole chloroplast	any two for 1 mark each  If three answers given and one is wrong, give 1 mark only.
<b>Total</b>	6		

<b>Question</b>	<b>2</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
<b>(a)</b>	2	moving particles of air hit sides	
<b>(b)</b>	2	speed up collide with each other with more force collide more often move apart	any two from the list
<b>(c)</b>	1	bigger / enlarge / burst / hotter	
<b>Total</b>	5		

Question	3		
Part	Mark	Answer	Further Information
(a)	2	acid (burns) wear safety specs / wear protective clothing	
(b)	1	40	
(c) (i)	1	6	
(ii)	1	The calcium carbonate has all reacted.	
(d)	2	mass of marble chips / calcium carbonate size of marble chips / calcium carbonate concentration of acid	any two, 1 mark each
Total	7		

Question	4		
Part	Mark	Answer	Further Information
(a) (i)	1	straight line through both holes onto screen	
(ii)	1	line drawn to show it hitting card <b>B</b> / missing hole in card <b>B</b>	
(iii)	1	light travels in straight lines	Accept cannot pass through card.
(b)	2	2 straight lines, both through hole  lines hitting the screen, crossing over each other	
Total	5		

<b>Question</b>	<b>5</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
<b>(a)</b>	2	insect: 3 pairs jointed legs	Accept arthropod, exoskeleton and jointed legs.
<b>(b)</b>	2	A is <i>Nepa cinerea</i> B is <i>Ilyocoris cimicoides</i>	
<b>Total</b>	4		

Question	6		
Part	Mark	Answer	Further Information
(a)	2	food must have a wide variety / contain all the essential nutrients  these should be in the correct amounts / proportions	
(b)	1	to provide fresh meat / eggs / source of protein	Accept: They could not preserve some foods very easily. Animals may produce young.
(c) (i)	1	disease caused by the lack of an important nutrient e.g. vitamin or mineral	If error in (c) (iii), mark (c) (iv) according to answer in (c) (iii).
(ii)	1	bleeding gums / sores which will not heal	
(iii)	1	lack of vitamin C	
(iv)	1	fruit contains vitamin C / he ate jam / he ate fruit	
Total	7		

<b>Question</b>	<b>7</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	D	
(b)	1	B	
(c)	2	<p>wave centred on horizontal line and touching first line above and below it (as in B)</p> <p>wave has one peak and one trough (as in D)</p>	
<b>Total</b>	<b>4</b>		

<b>Question</b>	<b>8</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a) (i)	2	remains of living organism changed to rock / preserved in rock	allow named living organism allow equivalent of rock, e.g. stone
(ii)	1	B and C	both required for mark
(b)	1	by the (hot) magma / by rock E	
<b>Total</b>	<b>4</b>		

<b>Question</b>	<b>9</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	larger than	
(b)	1	smaller than	
(c)	1	the same as	
<b>Total</b>	<b>3</b>		

<b>Question</b>	<b>10</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
	5	F C A H G E B	<p>correct order scores 5</p> <p>allow one mark if:</p> <p>starts with F</p> <p>ends with B</p> <p>has AHG (in that order) anywhere</p> <p>has HE (in that order) anywhere</p>
<b>Total</b>	5		