

GCSE

Science A (4461)

Specification A

PHY1BP, PH1BSF & PH1BSH

Mark Scheme

2010 Examination – March Series

The blank answer sheet for this component can be found at the end of this document.

This component is an objective test for which the following list indicates the correct answers used in marking the candidates' responses.

Further copies of this Mark Scheme are available to download from the AQA Website: www.aqa.org.uk

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GCSE

SCIENCE A (4461)/PHYSICS (4451)

Objective Test Answer Key

PHY1BP (Radiation and the Universe)

March 2010

Foundation Tier

Question				Key		
	Α	microwaves		4		
0.55	в	ultraviolet ray	ys	1		
One	С	visible light		2		
	D	X-rays		3		
	Α	gamma		3		
Two	В	infra red		4		
100	С	radio		1		
	D	ultraviolet		2		
	Α	electron		4		
Three	В	neutron		2		
	С	nucleus		3		
	D	proton		1		
	-					
	A	alpha	3			
Four	В	beta	4			
	С	gamma	2			
	D	X-rays	1			
	Α	50	3			
	В	100	4			
Five	C	400	- 2			
	_	400 800				
	D	000	1			
		Α		В	С	D
Six		1		2	2	1
Seven		3		2	2	4
Eight		3		3	3	2
Nine		2		4	2	1

GCSE

SCIENCE A (4461)/PHYSICS (4451)

Objective Test Answer Key

PHY1BP (Radiation and the Universe)

March 2010

Higher Tier

Question				ŀ	Key	
	Α	50	3			
000	в	100	4			
One	С	400	2			
	D	800	1			
	Α	hat		1		
Two	в	sunshade		4		
TWO	С	sunglasses		2		
	D	sunscreen o	cream	3		
	T		I			
		Α		В	С	D
Three		3		3	3	2
Four		2		4	2	1
Five		4		2	1	1
Six		2		2	3	2
Seven		1		2	2	3
Eight		4		1	2	2
Nine		1		4	4	3

- T	A		r - 7	Canal State	100 TO	Page 1	
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- A	-1-1	100.022	- 1	-21		1.00	



Unit : PHY1BP PHYSICS UNIT 1B

Centre :

Candidate Number : Candidate Name : Series: 3G10

03-MAR-10

For completion by the Examination Invigilator. Please fill this circle if the candidate is absent: O

UCI:

Instructions on how to complete this answer sheet are given on the question paper. Please make sure you follow them carefully. Questions ONE to NINE Choose one response 1 - 4 for each of the parts A - D

		QUESTION ONE	1	2	3	4)
1A	50		0	0	0	0	•
1B	100		\odot	0	0	0	•
1C	400		0:	0	0	0	
1D	800		0	0	0	0].
		QUESTION TWO	 1	2	3	4)
2A	hat	QUESTION TWO	 1	2	3 O	4	
2A 2B	hat sunshade	QUESTION TWO	1 0	2 0	3 0		
		QUESTION TWO	1 0 0	0	3 0 0	0	

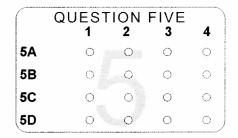
	QUE	STIO 1	N TH 2	REE 3	4
3A		0	0	0	0
3B		0	0	0	0
3C		0	0	0	0
3D		0	0	0	0)

	QUES		-	
6A	1	2	3	4
6B	0	0	0	0
6C	0	0	Ő	0
6D	0	0	0	0

	QUEST	IONF	OUF	2
	1	2	3	4
4A	0	0	0	0
4B	0	0	0	0
4C	0	0	0	0
4D	0	0	0	0)

	QUES	TION	SEVEN	I
	1	2	3	4
7A	0	0	0	0
7B	0	0	0	0
7C	0	0	0	0
7D	0	0	0	0)

	QUEST	TION	NINE	
	1	2	3	4
9A	0	0	0	0
9B	0	0	0	\circ
9C	0	0	0	0
9D	0	0	0	0



	QUEST	ON	EIGHT	
	1	2	3	4
8A	0	0	0	Ο
8B	0	0	0	0
8C	0	0	0	0
8D	0	0	0	0



2239



2239

FOUNDATION TIER

Instructions on how to complete this answer sheet are given on the question paper. Please make sure you follow them carefully.

Ouestions ONE to NINE Choose one response 1 - 4 for each of the parts A - D

		Questio					1 101 0000				_			
	1A	microwaves	S	Q	UESTION	UNE		1	2 ○	3 0	4 ` ``	•		
		ultraviolet r						0	0	0	0			
	1	visible light						0	0	0	0	•		
		X-rays						0	0	0	0	-		
	_	······			UESTION	TWO		1	2	3	4	, ,		
	2A	gamma		Q	OLOHON	1000		0	0	о О	•			
	2B	infra red						0	0	0	0			
	2C	radio						0	0	0	0			
	2D	ultraviolet						0	0	0	0			
	_			011	ESTION 1			1	2	3	4			
	3A	electron		QU	LOTION		-	0	0	о О	0	-		
	3B	neutron						0	0	0	0	•		
	3C	nucleus						0	0	0	0	•		
	3D	proton						0	Ō	0	0			
	-			01	JESTION	FOUR		1	2	3	4			
	4A	alpha		QC		1001		0	0	о О	0	•		
	4B	beta						0	0	0	0	-		
	4C	gamma						0	0	0	0	•		
	4D	X-rays						0	0	0	0	•		
				Q	UESTION	FIVE		1	2	3	4			
	5A	50			02011011			0	õ	0	0	•		
	5B	100						0	0	0	0	•		
	5C	400			*			0	О	0	0	•		
	5D	800						0	0	0	0	•		
QUES	TION	SIX	}		JESTION	SEVE	N	(QU	EST	ION	EIGH	łТ
1	2	3 4			1 2	3	4				1	2	3	4
6A O	0	0 0		7A	0 0		0		8A		0	0	0	0
6B O	0	0 0		7B	0 0	0	0		8B		0	0	0	0
6C O	0	0 0		7C	0 0	0	0		8C		0	0	0	0
6D O	0	0 0)	(7D	0 0	0	<u> </u>	(8D		0	0	0	0
				Q	UESTION	NINE 3	4							
				9A	0 0	0	0							
				9B	0 0	0	0							
				9C	0 0	0	0							
				9D	0 0	0	0							
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6A 6B 6C 6D