

GCSE

Science A (4461)

Specification A

PHY1BP, PH1BSF & PH1BSH

Mark Scheme

2010 Examination – June 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) June 2010

Foundation Tier

Question			K	<i>Čey</i>	
	Α	gamma rays	1		
0:	В	microwaves	4		
One	С	visible light	3		
	D	X-rays	2		
	Α	alpha	3		
Two	В	beta	2		
	С	gamma	1		
	D	X-rays	4		
	Α	alpha	2		
Three	В	beta	3		
1100	С	gamma	1		
	D	X-rays	4		
	_		_		
	A	categoric	2		
Four	В	control	1		
	С	dependent	3		
	D	reliable	4		
	Α	three	3		
	В	four	1		
Five	С		•		
		five	2		
	D	eight	4		
		Α	В	С	D
Six		4	2	2	1
Seven		4	3	1	4
Eight		3	3	4	2
Nine		4	2	2	2

GCSE SCIENCE A (4461) / PHYSICS (4451)

Objective Test Answer Key

PHY1BP (Radiation and the Universe) June 2010

Higher Tier

Question					Key			
	Α	three		3				
One	В	four		1				
One	С	five		2				
	D	eight		4				
	Α	Source giv	es off alph	a radiatio	n only.		3	
Two	В	Source giv	es off alph	a and bet	a radiation	only.	2	
C	С	Source giv	e gives off alpha, beta and gamma radiation.			4		
	D	Source giv	es off beta	radiation	only.		1	
		Α	В		C	;		D
Three		3	3		4	ļ.		2
Four		4	2		2	2		2
Five		1	3		4	ļ		2
Six		2	2		2	2		2
Seven		1	2		2	2		1
Eight		2	4		3	3		4
Nine		2	4		4	ļ		2



Unit: PHY1BP PHYSICS UNIT 1B

Centre:

Candidate Number:

UCI:

Series: 6M10

Candidate Name:

28-JUN-10

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

HIGHER TIER

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	three	0	0	0	0	
1B	four	0	0	0	0	
1C	five	0	0	0	0	
1D	eight	0	0	0	0	J.
	QUESTION TWO	1	2	3	4)
2A	Source gives off alpha radiation only.	0	Q	0	0	
2B	Source gives off alpha and beta radiation only.	Ō	0	0	0	
2C	Source gives off alpha, beta and gamma radiation.	0	0	0	0	
2D	Source gives off beta radiation only.	0		0		

	QUEST 1	ΓΙΟΝ 2	THRE	EE 4	
3A	0	0	0	0	
3B	0	0	0	0	
3C	0	0	0	0	
3D	0	0	0	0)	

	QUES	TION 2	SIX 3	4	
6A	0	0	0	0	
6B	0	0	0	0	
6C	0	0	0		
6D	0	0	0	0	

	QUESTI	ION F	OUR 3	4
4A	0	0	0	0
4B	0	0	0	0
4C	0	0	0	0
4D	0	0	0	0

QL	JESTI	ON S	EVE	N
	1	2	3	4
7A	0	0	0	0
7B	0	0	0	0
7C	0	0	0	0
7D	0	0	0	Ō

The state of the s	QUES ¹	TION 2	NINE 3	4
9A	0	0	0	0
9B	0	0	0	0
9C	0	0	0	0
9D	0	0	0	0

	QUEST 1	10N 2	FIVE 3	4
5A	0	0	0	0
5B	0	0	0	0
5C	0	0	0	0
5D	0	0	0	0

	QUES	TION	EIGHT	
	1	2	3	4
A8	0	0	0	0
8B	0	0	0	0
8C	0	0	0	0
8D	0	0	0	0

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FOUNDATION TIER

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
A	gamma rays	- 경기 등 기계	0	0	0	0
1B	microwaves		0	0	0	0
1C	visible light		0	0	0	0
1D	X-rays		0	0	0	0
		QUESTION TWO	1	2	3	4
2A	alpha		0	0	0	0
2B	beta		0	0	0	0
2C	gamma		0	0	0	0
2D	X-rays		0	0	0	0
_		QUESTION THREE	1	2	3	4
3A	alpha		0	О	0	0
3B	beta		0	0	0	0
3C	gamma		0	0	0	0
3D	X-rays		0	0	0	0
		QUESTION FOUR	1	2	3	4
4A	categoric		0	0	0	0
4B	control		0	0	0	0
4C	dependent		0	0	0	0
4D	reliable		0	0	0	0
		QUESTION FIVE	1	2	3	4
5A	three		0	0	0	0
5B	four		0	0	0	0
5C	five		0	0	0	0
5D	eight		0	0	0	0

	QUES	TION	SIX	
	1	2	3	4
6A	0	0	0	0
6B	0	0	0	0
6C	0	0	0	0
6D	0	0	0	

QUESTION SEVEN				
	1	2	3	4
7A	0	0	0	0
7B	0	0	0	0
7C		0	0	0
7D	0	0	0	0

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

	QUEST	10N 2	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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