Centre No.		Paper Reference Surname		Initia	al(s)				
landidate Io.				/	1	P	Signature		
	Paper Reference(s) 5647/1P	5657/1	Р					Examiner's us	e only
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	Science			var	'a t	3 (]	1536)	Question Number	
	Physics	•	-					1	
	(Modules	s 5 and 6)					2	
	Paper 1P							3	
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	Time: 30	-	2007	1 1	1101	1100	/11	6	
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	Materials requir Nil	ed for examination	$\frac{\text{on}}{N}$ $\frac{\text{It}}{N}$		cludec	l with	question papers	8	
gnature, and co heck that you h nswer ALL the now all stages i clude diagrams ome questions i	Candidates we, write your centre n mplete the paper refer ave the correct question questions. Write your n any calculations and in your answers wher nust be answered with the through the box (X)	ence. n paper. answers in the state the units. e these are help a cross in a box	spaces p Calcula ful. < (⊠). I	provide tors m	ed in t hay be change	his qu used. e your	estion paper.		
	r Candidates	the next f	ation -	40 cl.			hun alvatar a c	<u> </u>	
nere are 8 quest	dividual questions and ions in this question p s in this question pape	aper. The total	mark fo	r this j	paper i		i orackets: e.g. (2).	
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This syn	nbol shows where the	quality of your	written	answe	r will	also b	e assessed.		
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	type of wave	use
	gamma	• sterilising food, such as strawberries
	ultrasound	making images of bones
	ultra-violet	checking for fake £10 notes
	X-ray	• scanning an unborn baby
		(Total 3 marks)
(a) Give one example of a d	
	b) Give one safety feature of	(1) of a mains plug and explain how this reduces danger.
	b) Give one safety feature of	(1) of a mains plug and explain how this reduces danger.
	b) Give one safety feature c safety feature	(1) of a mains plug and explain how this reduces danger.
	b) Give one safety feature c safety feature	(1) of a mains plug and explain how this reduces danger.



(a)) She decides to imp	rove the insulation.		
	(i) Name a part of	T the house where she can make t ulation should be.	he insulation better and state	wha
		ise		
	•			
	type of insulation	ion		•••••
				(1
	(ii) Mark a cross (\boxtimes) next to the correct words to a	complete this sentence.	
			produces more energy	X
Th	ne insulation will help	her save energy because insula	tion stops cold entering	X
			reduces heat loss	(1
(b)	She compares two	a new lamp for her room. lamps. Each lamp gives out the	-	·
(b)	She compares two	lamps. Each lamp gives out the at bulb and the other has a halog hat she found out.	en bulb.	
(b)	She compares two compact fluorescer	lamps. Each lamp gives out the at bulb and the other has a halog	-	
(b)	She compares two compact fluorescen The table shows w	lamps. Each lamp gives out the nt bulb and the other has a halog hat she found out.	en bulb. halogen bulb	
(b)	She compares two compact fluorescen The table shows where the table shows where tables tables the table shows where tables ta	lamps. Each lamp gives out the nt bulb and the other has a halog hat she found out.	en bulb. halogen bulb 50	·
(b)	She compares two compact fluorescen The table shows where power used (W) lifetime (hours) notes Freya chooses the h Suggest one advant advantage	lamps. Each lamp gives out the at bulb and the other has a halog hat she found out.	en bulb. halogen bulb 50 1 500 fully bright almost immediately ent bulb. s bulb.	has
(b)	She compares two compact fluorescen The table shows where power used (W) lifetime (hours) notes Freya chooses the H Suggest one advant advantage	lamps. Each lamp gives out the nt bulb and the other has a halog hat she found out. compact fluorescent bulb 11 12 000 takes 1 minute to be fully bright lamp with the compact fluorescent tage and one disadvantage of thi	en bulb. halogen bulb 50 1 500 fully bright almost immediately ent bulb. s bulb.	has (1





	Source: www.nssdc.gsfc.nasa.gov
Pho	penix is designed to search for water or ice.
(i)	Suggest a reason why NASA scientists want to find out if there is any water or ice on Mars.
	(1)
(ii)	NASA scientists do not plan to send people to Mars in the near future. One reason that they prefer to send robot landers rather than astronauts, is that people would need to exercise. Suggest two other reasons.
	(3) her scientists work for SETI (the Search for Extra-Terrestrial Intelligent life). te how these scientists search for extra-terrestrial life.
	(1)
	QUESTION 7 CONTINUES OVERLEAF
	(i) (ii) Oth

|____

throughout the world. William Herschel	
Mike Brown	
(2)	Q
(Total 7 marks)	
	Q8
	+
a	(2) (Total 7 marks) kettle for use in a caravan has this label. • 5 A • 60 W • 2.4 Ω alculate the correct supply voltage for this kettle. Show your working.