Skill code	Skill
K1	Demonstrating knowledge and understanding of physics by making accurate statements
K2	Describing information, providing explanations, and integrating knowledge
K3	Applying knowledge of physics to new situations, interpreting information, and solving problems
S1	Planning and/or designing experimental investigations to test given hypotheses or to illustrate particular effects
S2	Selecting information from a variety of sources
S3	Presenting information appropriately in a variety of forms
S4	Processing information/data (using calculations and units, where appropriate)
S5	Making predictions based on evidence/information
S6	Drawing conclusions and giving explanations supported by evidence/justification
S7	Suggesting improvements to experimental procedures

2014 National 5 Physics Question Paper						
Question	Part	Course Content	Skills assessed	Marks	A-type Marks	
Section 1						
1		Potential difference (voltage)	K1	1		
2		Practical electrical and electronic circuits	K1	1		
3		Practical electrical and electronic circuits	S6	1	1	
4		Energy	K3	1	1	
5		Gas laws and the kinetic model	K3	1	1	
6		Gas laws and the kinetic model	S2	1		
7		Gas laws and the kinetic model	S4	1		
8		Wave parameters and behaviours	K3	1		
9		Electromagnetic spectrum	K1	1		
10		Nuclear radiation	K1	1		
11		Nuclear radiation	K2	1		
12		Nuclear radiation	K3	1		
13		Nuclear radiation	K1	1		
14		Vectors and scalars	K1	1		
15		Vectors and scalars	K3	1	1	
16		Energy	K3	1		
17		Newton's laws	S 5	1	1	
18		Space exploration	K2	1		
19		Projectile motion	S6	1	1	
20		Specific latent heat	S6	1		
Section 2			-			
	(a)	Electrical power	K3	3		
1	(b)(i)	Practical electrical and electronic circuits	K3	3		
	(b)(ii)	Practical electrical and electronic circuits	K2	2	2	
	(a)(i)	Potential difference (voltage)	S4	1		
	(u)(i)		K3	3		
2	(a)(ii)	Non specific	S2	1		
	(b)(i)	Practical electrical and electronic circuits	K2	3	2	
	(b)(ii)	Practical electrical and electronic circuits	K2	3	3	
	(a)	Electrical power	K3	2		
	(b)(i)	Specific heat capacity	S2	1		
3	(b)(ii)	Specific heat capacity	K3	3		
	(c)(i)	Specific heat capacity	S7	1		
	(c)(ii)	Specific heat capacity	S7	1	1	
	(a)	Wave parameters and behaviours	K3	1	1	
4	(~)		K3	3	2	
	(b)	Refraction of light	S3	3	1	
	(a)	Non specific	S4	2	1	
5	(b)	Non specific	S2	2		
	(c)	Electromagnetic spectrum	K1	1		
	(a)	Nuclear radiation	K1	1		
6	(b)(i)	Nuclear radiation	S1	3	1	
_	(b)(ii)	Nuclear radiation	S2	1		
	(b)(iii)	Nuclear radiation	K3	2		
7	<i></i>	Waves	K2	3	2	
_	(a)(í)		K3	3		
8	(a)(II)	Nuclear radiation	K3	3		
	(b)	Nuclear radiation	K1	1		
9	(-)(!)		K2	3	2	
	(a)(l)		K3	3		
10	(a)(II)	Velocity-time graphs	52		4	
10	(a)(III)	Newton's laws	53 K0	2	1	
	(D)(I)	Vectors and acclars	K3	3		
	(II)(U)	Vectors and scalars	r J	3	4	
4.4	(a)	Newton's laws	r.Z	۱ ۸	1	
	(U)	Vectors and sectors	54 K2	1		
	(C)		r J	3		
	(a)	INEWIULTS IAWS		3	1	
	(b)	Gas laws and the kinetic model	34 V2	۱ ۵		
10	(0)	Newton's laws	い	ی ۱	1	
			١١٢	I	I	

2014 National 5 Physics Question Paper							
Question	Part	Course Content	Skills assessed	Marks	A-type Marks		
	(d)	Newton's laws	S4	1	1		
			K3	3	2		
	(e)	Newton's laws	K2	2	1		

1. This question paper was set pre-2018, and so

i) the total number of mutiple-choice marks is 20 rather than 25

ii) the total number of extended-response marks is 90 rather than 110iii) the targets for percentages of marks assigned to each skill area differ

from those in post-2017 question papers

iv) the approach to marking changed for some question types following the publication of updated Physics:general marking principles in 2017.
2. The assignment was part of the course assessment in this year, and the target of 30% A-type marks was taken over both assignment and question paper components of the course assessment, rather than the question paper alone.

2015 National 5 Physics Question Paper							
Question	Part	Course	Skills	Marks	A-type		
Question	Fait	Content	assessed	IVIAI NS	Marks		
Section 1							
1		Practical electrical and electronic circuits	S1	1			
2		Potential difference (voltage)	K1	1			
3		Practical electrical and electronic circuits	K3	1			
4		Electrical power	K3	1			
5		Gas laws and the kinetic model	K2	1			
6		Gas laws and the kinetic model	K3	1	1		
/		Wave parameters and behaviours	S4	1			
8		Electromagnetic spectrum	K1	1			
9		Nuclear radiation	K2	1			
10		Nuclear radiation	K2	1			
17		Nuclear radiation	K3	1			
12		Nuclear radiation	KJ K1	1			
13		Vectors and scalars	K2	1			
15		Acceleration	56	1	1		
16		Energy	K3	1	1		
17		Newton's laws	K2	1			
18		Newton's laws	K2	1	1		
19	<u> </u>	Cosmology	S4	1			
20		Cosmology	S6	1			
Section 2		, .,			·		
	(a)	Practical electrical and electronic circuits	S3	3	1		
1	(b)	Ohm's law	K3	3			
	(C)	Practical electrical and electronic circuits	K2	3	3		
	(a)	Practical electrical and electronic circuits	S6	2	2		
2	(b)(i)	Electrical power	K3	4			
	(b)(ii)	Electrical charge carriers	K3	3			
	(a)(i)	Non specific	S4	1	1		
	(a)(ii)	Wave parameters and behaviours	K3	3			
	(a)(ii)	Wave parameters and behaviours	K3	1	1		
3	(b)	Wave parameters and behaviours	S5	2	1		
	(c)(i)	Wave parameters and behaviours	S4	2			
	(c)(ii)	Wave parameters and behaviours	K3	3			
	(d)	Wave parameters and behaviours	S6	2	2		
4		Properties of matter	K2	3	2		
	(a)	Refraction of light	K1	1			
5	(b)	Refraction of light	K1	1			
	(C)	Refraction of light	S4	1	1		
	(D)	Gas laws and the kinetic model	K3	3			
	(a)	Nuclear radiation	K2	1	2		
6	(D)(I) (b)(ii)	Nuclear radiation	K2	3	3		
0	(D)(II) (b)(iii)	Nuclear radiation	KI K1	1			
		Nuclear radiation	۲۸۱ ۵۸	1	├ ───┤		
	(e) (a)(i)	Vectors and scalars	<u>.</u> <u>S4</u>	2			
	(a)(ii)	Vectors and scalars	<u>S4</u>	2	1		
7	(a)(iii)	Newton's laws	K3	3	<u> </u>		
	(b)	Newton's laws	K2	3	2		
	(a)(i)	Acceleration	S1	3			
8	(a)(ii)	Acceleration	S7	1	1		
	(b)	Acceleration	K3	3			
	(a)	Projectile motion	S3	1			
	(b)(i)	Projectile motion	K3	3			
9	(b)(ii)	Projectile motion	K3	1	1		
			K3	3	2		
	(c)	Projectile motion	K1	1			
10		Space exploration	K2	3	2		
	(a)(i)	Energy	K3	3			
	(a)(ii)	Energy	K2	1			
<i>,</i> .	(b)(i)	Non specific	S3	3	1		
11	(b)(ii)	Non specific	S5	1	<u> </u>		
	(b)(iii)	Non specific	S7	2	1		
	(c)(i)	Non specific	S1	1	<u> </u>		
	(c)(ii)	INon specific	I S1	2	I 1		

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ii) the total number of extended-response marks is 90 rather than 110

iii) the targets for percentages of marks assigned to each skill area differ

from those in post-2017 question papers

iv) the approach to marking changed for some question types following

the publication of updated Physics:general marking principles in 2017.

2. The assignment was part of the course assessment in this year, and the target of 30% A-type marks was taken over both assignment and

question paper components of the course assessment, rather than the

question paper alone.

2016 National 5 Physics Question Paper							
Question	Part	Course	Skills	Marks	A-type		
Question	Fait	Content	assessed	iviai K5	Marks		
Section 1							
1		Practical electrical and electronic circuits	K1	1			
2		Potential difference (voltage)	50	1			
3		Practical electrical and electronic circuits		1			
5		Gas laws and the kinetic model	K3	1	1		
6		Gas laws and the kinetic model	K3	1			
7		Gas laws and the kinetic model	K2	1	1		
8		Wave parameters and behaviours	K1	1			
9		Wave parameters and behaviours	\$2	1			
10		Wave parameters and behaviours	S4	1	1		
11		Refraction of light	S6	1	1		
12		Nuclear radiation	K1	1			
13		Nuclear radiation	K1	1			
14		Vectors and scalars	K1	1			
15		Velocity-time graphs	S6	1			
16		Energy	K3	1	1		
17		Newton's laws	K2	1			
18		Projectile motion	K3	1	1		
19			K3	1			
∠∪ Section 2		Cosmology	Γ.I	I			
	(2)	Electrical charge carriers	КЗ	3			
1	(a) (h)	Electrical charge carriers	S4	1	1		
	(c)	Electrical charge carriers	K2	2	1		
	(e) (a)	Practical electrical and electronic circuits	S1	1			
	(b)	Ohm's law	S1	1			
2	(-)	Ohmle Invi	S6	1			
	(C)	Onm's law	K3	3			
	(d)	Ohm's law	S6	1	1		
3	(a)	Specific heat capacity	K3	2			
	(b)(i)	Electrical power	K3	3			
Ũ	(b)(ii)	Specific heat capacity	K2	1	1		
	(c)	Practical electrical and electronic circuits	K2	3	3		
	(a)	Electromagnetic spectrum	K1	1			
4	(b)	Electromagnetic spectrum	K1	1			
	(C)(I)	Electromagnetic spectrum	K3	2	1		
5	(C)(II)			3	1		
5	(a)(i)	Refraction of light	N2 93	1	2		
	(a)(ii)	Refraction of light	<u> </u>	1			
6	(a)(ii) (b)(i)	Refraction of light	S2	1			
-	(b)(ii)	Refraction of light	S5	1			
	(c)	Refraction of light	S7	1			
	(a)	Nuclear radiation	K3	3			
7	(b)	Electrical power	S4	2	2		
	(c)	Nuclear radiation	K2	1			
	(a)(i)	Nuclear radiation	K3	3			
8	(a)(ii)	Nuclear radiation	K3	3			
	(b)	Nuclear radiation	S4	3			
	(a)(i)	Vectors and scalars	S4	2			
9	(a)(ii)	Vectors and scalars	S4	2	1		
Ũ	(b)(i)	Vectors and scalars	K3	3	1		
	(b)(ii)	Vectors and scalars	S6	2	2		
10	(a)	Acceleration	K3	3			
10	(b)	Velocity-time graphs	<u>K3</u>	3			
	(C)	Newton's laws	<u>S3</u>	3	1		
11	(0)	Dynamics	K2	3	2		
	(a) (b)(i)	Practical electrical and electronic circuits	K3 K1	3 1			
	(D)(I) (b)(ii)		<u> </u>	1	1		
12	(b)(ii) (b)(iii)	Flectrical nower	0000000000	2	2		
		Newton's laws	<u> </u>	1	۷.		
			K3	3	2		
	(c)(ii)	Newton's laws		1	1		
	(a)	Nuclear radiation	K1	1	1		
	(a) (b)	Gas laws and the kinetic model	K3	1			
13	(c)	Cosmology	K3	3			
	(d)	Cosmology	K2	1	1		

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question paper alone.

QuestionPartCourse ContentSoliis assessedMarkeArtypeSection 11Electrical charge carriersK312Electrical charge carriersK313Ohm's lawS6613Specific heat capacityK114Practical electrical and electronic circuitsK215Specific heat capacityK117Gas laws and the kinetic modelK318Wave parameters and behavioursK119Wave parameters and behavioursK1110Wave parameters and behavioursS44111Electronagentic spectrumS66112Refraction of lightK1113Nuclear radiationK31114Vectors and scalarsK31115Vectors and scalarsK11116AccelerationK21117Newtors lawsK21118Spece explorationK11119Spece ficture heatK33110Maceleration and electronic circuitsK11111Electrical powerK33219Spece ficture harge carriersK121120CosmologyK1332110Electrical and electronic circuitsK11110 <th></th> <th colspan="7">2017 National 5 Physics Question Paper</th>		2017 National 5 Physics Question Paper						
Section 1 Image of the section of the sec	Question	Part	Course Content	Skills assessed	Marks	A-type Marks		
1 Energy S6 1 2 Electrical charge carriers K3 1 3 Ohm's law S6 1 4 Practical electrical and electronic circuits K2 1 5 Specific heat capacity S1 1 6 Gas laws and the kinetic model K3 1 7 Gas laws and the kinetic model S4 1 9 Wave parameters and behaviours K3 1 10 Wave parameters and behaviours K3 1 1 11 Electromagnetic spectrum S6 1 1 12 Refraction of light K1 1 1 13 Nuclear radiation K3 1 1 14 Vectors and scalars K2 1 1 15 Velocity-time graphs S2 1 1 16 Spacific latart heat K3 1 1 17 Newton laws K3 1 1 <tr< td=""><td>Section 1</td><td></td><td></td><td></td><td></td><td></td></tr<>	Section 1							
2 Electrical and electronic circuits K3 1 4 Practical electrical and electronic circuits K2 1 5 Specific heat capacity S1 1 6 Gas laws and the kinetic model K3 1 1 7 Gas laws and the kinetic model K3 1 1 8 Wave parameters and behaviours K3 1 1 9 Wave parameters and behaviours S4 1 1 10 Wave parameters and behaviours S4 1 1 11 Electromagnetic spectrum S65 1 1 12 Refraction of light K1 1 1 14 Vectors and scalars K3 1 1 15 Velocity-time graphs S2 1 1 16 Acceleration S5 1 1 17 Newton's laws K2 1 1 18 Space exploration K2 1 1	1		Energy	S6	1			
3 Orm's Ball Sbo 1 4 Practical electrical and electronic circuits K2 1 5 Specific hest capacity S1 1 6 Gas laws and the kinetic model K3 1 7 Gas laws and the kinetic model K3 1 8 Wave parameters and behaviours K3 1 9 Wave parameters and behaviours K3 1 10 Wave parameters and behaviours K3 1 11 Electromagnetic spectrum S6 1 12 Refraction of light K1 1 13 Nuclear radiation K3 1 1 14 Velocity-ime graphs S2 1 1 15 Velocity-ime graphs S2 1 1 16 Acceleration K3 1 1 17 Newton's law K3 1 1 20 Cosmology K1 1 1 18 Sp	2		Electrical charge carriers	K3	1			
4 Practical actional and becoming circuits K2 1 5 Specific heat capacity \$31 1 6 Gas laws and the kinetic model K3 1 1 7 Gas laws and the kinetic model K3 1 1 8 Wave parameters and behaviours K3 1 1 9 Wave parameters and behaviours S4 1 1 10 Wave parameters and behaviours S4 1 1 11 Electronagnetic spectrum S6 1 1 12 Refraction of light K1 1 1 14 Vectors and scalars K3 1 1 15 Velocity-time graphs S2 1 1 16 Acceleration S5 1 1 17 Newton's laws K2 1 1 18 Specific latent heat K3 1 1 20 Cosmology K1 1 1	3		Ohm's law	S6	1			
a Description regardly Diameter	4		Specific heat capacity	NZ S1	1			
0 Oss laws and the kinetic model S4 1 1 8 Wave parameters and behaviours K1 1 1 9 Wave parameters and behaviours K3 1 1 10 Wave parameters and behaviours S4 1 1 11 Electronagnetic spectrum S6 1 1 12 Rafraction of light K1 1 1 13 Nuclear radiation K3 1 1 14 Vectors and scalars K3 1 1 15 Velocity-time graphs S2 1 1 16 Acceleration S5 1 1 17 Newton's laws K2 1 1 20 Cosmology K1 1 1 21 Cosmology K1 1 1 21 (a)(ii) Practical electrical and electronic circuits K1 1 21 (a)(iii) Electrical power K3 3 <td>6</td> <td></td> <td>Gas laws and the kinetic model</td> <td></td> <td>1</td> <td>1</td>	6		Gas laws and the kinetic model		1	1		
8 Wave parameters and behaviours K1 1 9 Wave parameters and behaviours K3 1 10 Wave parameters and behaviours S4 1 1 11 Electromagnetic spectrum S6 1 1 12 Refraction of light K1 1 1 13 Nuclear radiation K3 1 1 14 Velocity-time graphs S2 1 1 15 Velocity-time graphs S2 1 1 16 Acceleration K2 1 1 17 Newton's laws K2 1 1 20 Cosmology K1 1 1 21 (a)(i) Practical electrical and electronic circuits K1 1 22 (a)(ii) Practical electrical and electronic circuits K3 3 2 22(a)(ii) Discritical power K3 3 2 24(a)(ii) Practical electrical and electronic circuits <t< td=""><td>7</td><td></td><td>Gas laws and the kinetic model</td><td>S4</td><td>1</td><td>1</td></t<>	7		Gas laws and the kinetic model	S4	1	1		
9 Wave parameters and behaviours K3 1 10 Wave parameters and behaviours S4 1 1 11 Electromagnetic spectrum S6 1 1 12 Refraction of light K1 1 1 13 Nuclear radiation K3 1 1 14 Vectors and scalars K3 1 1 15 Velocity-time graphs S2 1 1 16 Acceleration S5 1 1 17 Newton's laws K2 1 1 20 Cosmology K1 1 1 20 Cosmology K1 1 1 20 Cosmology K1 1 1 21 (a)(0) Practical electrical and electronic circuits K1 1 22 (a)(ii) Electrical power K3 3 2 22 (a)(iii) Electrical power K3 3 2 </td <td>8</td> <td></td> <td>Wave parameters and behaviours</td> <td>K1</td> <td>1</td> <td></td>	8		Wave parameters and behaviours	K1	1			
10 Wave parameters and behaviours S4 1 1 11 Electromagnetic spectrum S6 1 12 Refraction of light K1 1 13 Nuclear radiation K3 1 1 14 Velocity-time graphs S2 1 1 15 Velocity-time graphs S2 1 1 16 Acceleration S5 1 1 17 Newton's laws K2 1 1 20 Cosmology K1 1 1 20 Cosmology K1 1 1 21 (a)(i) Practical electrical and electronic circuits K1 1 1 22 (a)(ii) Practical electrical and electronic circuits K3 3 1 23 (a)(iii) Practical electrical and electronic circuits K3 3 2 24 (b) Best laws and the kinetic model K3 3 2 24 <td< td=""><td>9</td><td></td><td>Wave parameters and behaviours</td><td>K3</td><td>1</td><td></td></td<>	9		Wave parameters and behaviours	K3	1			
11 Electromagnetic spectrum S6 1 12 Refraction of light K1 1 13 Nuclear radiation K3 1 1 14 Vectors and scalars K3 1 1 15 Velocity-time graphs S2 1 1 16 Acceleration S5 1 1 17 Newtor's laws K2 1 1 18 Space exploration K2 1 1 20 Cosmology K1 1 1 1 20 Cosmology K1 1 1 1 20 Cosmology K1 1 1 1 20 Pactical electrical and electronic circuits K1 1 1 10 Electrical and electronic circuits K3 3 2 210(ii) Practical electrical and electronic circuits K3 3 2 210(iii) Electrical and electronic circuits K3 3<	10		Wave parameters and behaviours	S4	1	1		
12 Refraction of light K1 1 13 Nuclear radiation K3 1 1 14 Vectors and scalars K3 1 1 15 Velocity-time graphs S2 1 1 16 Acceleration S5 1 1 17 Newton's laws K2 1 1 20 Cosmology K1 1 1 21 (a)(ii) Practical electrical and electronic circuits K1 1 21 (a)(iii) Electrical power K3 3 2 22 (a)(iii) Practical electrical and electronic circuits K3 3 2 21 (a)(iii) Practical electrical power K3 3 2 21 (a)(iii) Wave parameters and behaviours	11		Electromagnetic spectrum	S6	1			
13 Nuclear radiation K3 1 1 14 Vetors and scalars K3 1 1 15 Vetors and scalars K3 1 1 16 Acceleration S2 1 1 16 Acceleration S2 1 1 17 Newton's laws K2 1 1 18 Space exploration K2 1 1 20 Cosmology K1 1 1 20 Cosmology K3 3 1 1 20 Electrical power K3 3 2 1 210(i) Electrical power K3 3 2 1 210(ii) Maxe parameters and	12		Refraction of light	K1	1			
14 Vectors and scalars K3 1 1 15 Velocity-time graphs S2 1 1 16 Acceleration S5 1 1 17 Newton's laws K2 1 1 18 Space exploration K2 1 1 19 Specific latent heat K3 1 1 20 Cosmology K1 1 1 20 Cosmology K3 3 1 1 20 Cosmology K3 1 1 1 20 (a)(iii) Wave parameters K3 3 1 1 21 Chiii Nuckear radiation K3 3 2 1 21	13		Nuclear radiation	K3	1	1		
15 Velocity-time graphs S2 1 1 16 Acceleration S5 1 - 17 Newton's laws K2 1 - 18 Space exploration K2 1 - 19 Specific latent heat K3 1 1 20 Cosmology K1 1 - Section 2 (a)(i) Practical electrical and electronic circuits K1 1 - (a)(ii) Practical electrical and electronic circuits K1 1 - (b) Electrical power K3 3 - - (b) Electrical power K3 3 - 2(b)(i) Electrical and electronic circuits K3 3 - 2(b)(i) Electrical and electronic circuits K3 3 - 2(b)(i) Electrical power K3 3 - 2(b)(ii) Electrical and electronic circuits K3 3 - 2(b)(ii) Nuclea	14		Vectors and scalars	K3	1	1		
16 Acceleration S5 1 17 Newton's laws K2 1 18 Space exploration K2 1 19 Specific latent heat K3 1 1 20 Cosmology K1 1 1 20 Cosmology K1 1 1 Section 2	15		Velocity-time graphs	\$2	1	1		
17 Newton's laws K2 1 18 Specific latent heat K3 1 1 20 Cosmology K1 1 1 20 Cosmology K1 1 1 3ection 2	16		Acceleration	S5	1			
10 Space exploration Nz 1 19 Space exploration Nz 1 1 20 Cosmology K1 1 1 20 Cosmology K3 3 1 10 Electrical electrical and electronic circuits K3 3 1 20(i) Chractical electrical and electronic circuits K3 3 2 20(i) Practical electrical ower K3 3 2 2 1 1 20(i) Electrical power K3 3 2 1 1 1 20(i) Wave parameters and behaviours K3 3 2 1 1 4	17		Newton's laws	K2	1			
19 Specific rate in the interface N3 1 1 20 Cosmology K1 1 1 (a)(i) Practical electrical and electronic circuits K1 1 1 (a)(ii) Practical electrical and electronic circuits K1 1 (a)(ii) Electrical power S6 1 1 (b) Electrical power K3 3 2 (a)(iii) Electrical power K3 3 2 2(b)(i) Practical electrical and electronic circuits K3 3 2 2(b)(ii) Electrical power K3 3 2 2(b)(ii) Practical electric model K3 3 2 (c) Gas laws and the kinetic model K3 3 2 (a)(ii) Wave parameters and behaviours K3 3 2 (a)(ii) Wave parameters and behaviours K3 3 2 1 4 (b) Wave parameters and behaviours K2 1 1 </td <td>18</td> <td></td> <td>Space exploration</td> <td>KZ</td> <td>1</td> <td>1</td>	18		Space exploration	KZ	1	1		
Section 2 Image: Construct of the section	19 20		Cosmology	r.3 K1	1			
(a)(i) Practical electrical and electronic circuits K1 1 1 (a)(iii) Practical electrical and electronic circuits K1 1 (a)(iii) Practical electrical and electronic circuits K1 1 (a)(iiii) Electrical power K3 3 (b) Electrical charge carriers K2 1 1 2(a)(ii) Ohm's law K3 3 2 2(a)(ii) Practical electrical and electronic circuits K3 3 2 2(b)(ii) Practical electrical and electronic circuits K3 3 2 2(b)(ii) Practical electrical and electronic circuits K3 3 2 2(b)(ii) Practical electrical and electronic circuits K3 3 2 (a) Gas laws and the kinetic model K2 3 2 1 (a)(ii) Wave parameters and behaviours S3 2 1 1 (a)(iii) Wave parameters and behaviours S3 2 1 1 (b)(ii)	Section 2		loosinology					
Image: construct of the second seco		(a)(i)	Practical electrical and electronic circuits	K1	1			
1 (a)(iii) Electrical power S6 1 (a)(iii) Electrical appower K3 3 (b) Electrical charge carriers K2 1 1 (a)(iii) Electrical charge carriers K2 1 1 (a)(ii) Electrical charge carriers K3 3 2 (a) Cal(iii) Electrical electrical and electronic circuits K3 3 (a) Gas laws and the kinetic model K3 3 2 (a) Gas laws and the kinetic model K3 3 2 (a)(ii) Wave parameters and behaviours K3 3 3 (b) Wave parameters and behaviours K3 3 3 (c) Wave parameters and behaviours S3 2 1 (d) Wave parameters and behaviours K2 1 1 (b) Wave parameters and behaviours K2 1 1 (b)(ii) Nuclear radiation S1 1 1		(a)(ii)	Practical electrical and electronic circuits	K1	1			
(a)(iii) Electrical charge carriers K3 3 (b) Electrical charge carriers K2 1 1 2(a)(i) Ohm's law K3 1 1 2(a)(ii) Electrical power K3 3 2 2(b)(i) Fractical electrical and electronic circuits K3 3 2 2(a) Gas laws and the kinetic model K3 3 2 (a) Gas laws and the kinetic model K3 3 2 (a) Wave parameters and behaviours K3 3 1 (a)(ii) Wave parameters and behaviours K3 3 1 (a)(ii) Wave parameters and behaviours K3 3 1 (b) Wave parameters and behaviours K2 1 1 (b)(i) Nuclear radiation K2 1 1 (b)(i) Nuclear radiation S5 1 1 (b)(ii) Nuclear radiation K3 3 2 (b)(ii) Nucl	1			S6	1			
(b) Electrical charge carriers K2 1 1 2(a)(i) Ohm's law K3 3 1 1 2(a)(ii) Electrical power K3 3 2 2(a)(ii) Electrical and electronic circuits K3 3 2 2(b)(i) Practical electrical and electronic circuits K3 3 2 (a) Gas laws and the kinetic model K2 3 2 1 (a) Gas laws and the kinetic model K3 3 2 1 (a)(i) Wave parameters and behaviours K3 3 3 2 (a)(ii) Wave parameters and behaviours K3 3 3 1 (b) Wave parameters and behaviours K3 3 2 1 (b)(ii) Nuclear radiation K2 1 1 1 (b)(ii) Nuclear radiation S4 2 1 1 (b)(ii) Nuclear radiation K3 3 1 1 <td></td> <td>(a)(iii)</td> <td>Electrical power</td> <td>K3</td> <td>3</td> <td></td>		(a)(iii)	Electrical power	K3	3			
2(a)(i) Ohm's law K3 1 1 2(a)(ii) Electrical power K3 3 2 2(b)(i) Practical electrical and electronic circuits K3 3 2 2(b)(ii) Electrical power S6 3 2 3 (a) Gas laws and the kinetic model K3 3 2 (a) Gas laws and the kinetic model K3 3 2 1 (a)(i) Wave parameters and behaviours K3 3 2 1 (a)(ii) Wave parameters and behaviours K3 3 2 1 (a)(ii) Wave parameters and behaviours S3 2 1 1 (b) Wave parameters and behaviours K3 3 2 1 (b)(ii) Nuclear radiation K2 3 2 1 1 (b)(i) Nuclear radiation S5 1 1 1 1 1 1 1 1 1 1 1		(b)	Electrical charge carriers	K2	1	1		
2 2(a)(i) Flastical power K3 3 2 2(b)(i) Fractical electrical and electronic circuits K3 3 - 2(b)(ii) Electrical power S6 3 2 2(b)(ii) Electrical power S6 3 2 3 (a) Gas laws and the kinetic model K3 3 - 4 (a)(i) Wave parameters and behaviours K3 3 - 4 (a)(i) Wave parameters and behaviours K3 3 - 4 (b) Wave parameters and behaviours K3 3 - 5 Nuclear radiation K2 1 1 6 (b)(i) Nuclear radiation S2 1 - 6 (b)(ii) Nuclear radiation S4 2 - 6 (b)(ii) Nuclear radiation K1 1 - 6 (b)(ii) Nuclear radiation K1 1 - 7		2(2)(1)	Ohm's law	K3	1	1		
2 (2(a)(ii) Electrical power K3 3 2(b)(i) Practical electrical and electronic circuits K3 3 2 3 (a) Gas laws and the kinetic model K3 3 2 (b) Gas laws and the kinetic model K3 3 2 1 (b) Gas laws and the kinetic model K3 3 2 1 (a)(i) Wave parameters and behaviours K3 3 3 2 1 (a)(ii) Wave parameters and behaviours K3 3 3 1 1 (b) Wave parameters and behaviours K3 3 1 1 1 1 1 (c) Wave parameters and behaviours K2 1		2(a)(i)		K3	3	2		
2(b)(i) Practical electrical and electronic circuits K3 3 2(b)(ii) Electrical power S6 3 2 (a) Gas laws and the kinetic model K3 3 2 (c) Gas laws and the kinetic model K3 3 2 1 (a)(i) Wave parameters and behaviours K3 3 3 2 1 (a)(ii) Wave parameters and behaviours S7 1 1 1 1 (b) Wave parameters and behaviours S3 2 1 1 1 (c) Wave parameters and behaviours K2 1 </td <td>2</td> <td>2(a)(ii)</td> <td>Electrical power</td> <td>K3</td> <td>3</td> <td></td>	2	2(a)(ii)	Electrical power	K3	3			
(a) Gas laws and the kinetic model K3 3 3 (a) Gas laws and the kinetic model K2 3 2 4 (a)(i) Wave parameters and behaviours K3 3 2 1 (a)(ii) Wave parameters and behaviours K3 3 3 2 1 (a)(iii) Wave parameters and behaviours K3 3 3 1 (b) Wave parameters and behaviours K3 3 2 1 (c) Wave parameters and behaviours K2 1 1 1 (c) Wave parameters and behaviours K2 3 2 1 5 Nuclear radiation K2 1 1 1 (b)(ii) Nuclear radiation S2 1 1 1 (b)(iii) Nuclear radiation K1 1 1 1 (b)(iii) Nuclear radiation K1 1 1 1 (b)(iii) Nuclear radiation K1		2(b)(i)	Practical electrical and electronic circuits	K3	3			
(a) Gas laws and the kinetic model K3 3 3 (b) Gas laws and the kinetic model K2 3 2 (c) Gas laws and the kinetic model S3 2 1 (a)(i) Wave parameters and behaviours K3 3 - (a)(ii) Wave parameters and behaviours K3 3 - (c) Wave parameters and behaviours K3 3 - (d) Wave parameters and behaviours K2 1 1 5 Nuclear radiation K2 3 2 1 (b) Nuclear radiation K2 1 1 1 (b)(ii) Nuclear radiation S5 1 - - (b)(iii) Nuclear radiation K1 1 1 - (b)(iii) Nuclear radiation K1 1 1 - (b)(iii) Nuclear radiation K1 1 1 - (b)(iii) Nuclear radiation K1 </td <td></td> <td>2(b)(ii)</td> <td>Electrical power</td> <td>S6</td> <td>3</td> <td>2</td>		2(b)(ii)	Electrical power	S6	3	2		
3 (b) Gas laws and the kinetic model K2 3 2 (c) Gas laws and the kinetic model S3 2 1 (a)(i) Wave parameters and behaviours K3 3 1 (a)(ii) Wave parameters and behaviours K3 3 1 (b) Wave parameters and behaviours K3 3 1 (c) Wave parameters and behaviours K3 3 2 1 (d) Wave parameters and behaviours K2 1 1 1 (d) Wave parameters and behaviours K2 1 1 1 (d) Wave parameters and behaviours K2 1 1 1 (d) Nuclear radiation S1 1 1 1 1 (b)(i) Nuclear radiation K3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	(a)	Gas laws and the kinetic model	K3	3			
(c) Gas taws and the kinetic model 5.3 2 1 4 (a)(i) Wave parameters and behaviours K3 3 (a)(ii) Wave parameters and behaviours K3 3 (b) Wave parameters and behaviours K3 3 (c) Wave parameters and behaviours K3 3 (d) Wave parameters and behaviours K2 1 1 5 Nuclear radiation K2 3 2 (a) Nuclear radiation S1 1 1 (b)(ii) Nuclear radiation S4 2 1 (b)(ii) Nuclear radiation K3 3 1 (b)(iii) Nuclear radiation K3 3 1 (a) Nuclear radiation K1 1 1 (b)(ii) Nuclear radiation K1 1 1 (a) Nuclear radiation K1 1 1 (b)(ii) Lectrical power S4 3 2	3	(D)	Gas laws and the kinetic model	K2	3	2		
(a)(i) Wave parameters and behaviours K3 3 (a) Wave parameters and behaviours K3 3 (b) Wave parameters and behaviours K3 3 (c) Wave parameters and behaviours K3 3 (c) Wave parameters and behaviours K2 1 1 (d) Wave parameters and behaviours K2 3 2 (d) Wave parameters and behaviours K2 3 2 (d) Wave parameters and behaviours K2 1 1 (d) Wave parameters and behaviours K2 1 1 (d) Wave parameters and behaviours K2 1 1 (b)(ii) Nuclear radiation K1 1 1 (b)(ii) Nuclear radiation K1 1 1 (b)(ii) Electrical power S4 1 1 (b)(ii) Lectrical power K3 3 2 (c) Nuclear radiation K1 1		(C)	Gas laws and the kinetic model	53 K2	2	I		
4 (b)(i) Wave parameters and behaviours K3 3 (c) Wave parameters and behaviours K3 3 1 (d) Wave parameters and behaviours K2 1 1 5 Nuclear radiation K2 3 2 6 (b)(i) Nuclear radiation S1 1 (b)(ii) Nuclear radiation S2 1 1 (b)(iii) Nuclear radiation S4 2 1 (b)(iii) Nuclear radiation S5 1 1 (c) Nuclear radiation K3 3 1 (a) Nuclear radiation K1 1 1 (b)(ii) Nuclear radiation K2 2 1 (b)(ii) Nuclear radiation K1 1 1 (b)(ii) Nuclear radiation K1 1 1 (b)(ii) Vectors and scalars K1 1 1 (b)(ii) Acceleration S4 3		(a)(i) (a)(ii)	Wave parameters and behaviours	57 57	<u> </u>			
Image Image <th< td=""><td>4</td><td>(a)(ii) (b)</td><td>Wave parameters and behaviours</td><td>K3</td><td>3</td><td></td></th<>	4	(a)(ii) (b)	Wave parameters and behaviours	K3	3			
(d) Wave parameters and behaviours K2 1 1 5 Nuclear radiation K2 3 2 6 (b)(i) Nuclear radiation S1 1		(C)	Wave parameters and behaviours	S3	2	1		
5 Nuclear radiation K2 3 2 6 (a) Nuclear radiation S1 1 1 (b)(i) Nuclear radiation S2 1 1 1 (b)(ii) Nuclear radiation S2 1 1 1 (b)(ii) Nuclear radiation S4 2 1 1 (b)(iii) Nuclear radiation K3 3 1 1 (c) Nuclear radiation K1 1 1 1 (b)(ii) Nuclear radiation K2 2 1 1 (b)(ii) Nuclear radiation K1 1 1 1 (b)(ii) Electrical power S4 1 1 1 (c) Nuclear radiation K1 1 1 1 (b)(ii) Vectors and scalars K1 1 1 1 (b)(ii) Vectors and scalars K3 3 2 1 1 (b)(ii) <td></td> <td>(d)</td> <td>Wave parameters and behaviours</td> <td>K2</td> <td>1</td> <td>1</td>		(d)	Wave parameters and behaviours	K2	1	1		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	5	(-/	Nuclear radiation	K2	3	2		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		(a)	Nuclear radiation	S1	1			
6(b)(ii)Nuclear radiationS42(b)(iii)Nuclear radiationS51(c)Nuclear radiationK331(a)Nuclear radiationK111(b)(i)Nuclear radiationK111(b)(i)Nuclear radiationK221(b)(ii)Electrical powerS411(c)Nuclear radiationK111(a)Vectors and scalarsK111(a)Vectors and scalarsK332(c)Vectors and scalarsK332(b)(ii)AccelerationS432(c)Vectors and scalarsK332(c)Vectors and scalarsK332(a)Newton's lawsK211(b)Newton's lawsK332(c)Newton's lawsK232(d)DynamicsK23211(b)Projectile motionS21(a)Projectile motionK221(a)(i)Electromagnetic spectrumK111(a)(ii)CosmologyS432(b)(ii)Electromagnetic spectrumK111(a)(ii)CosmologyS431(b)(iii)Electromagnetic spectrumK111		(b)(i)	Nuclear radiation	S2	1			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	6	(b)(ii)	Nuclear radiation	S4	2			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		(b)(iii)	Nuclear radiation	S 5	1			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		(c)	Nuclear radiation	K3	3	1		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		(a)	Nuclear radiation	K1	1			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	7	(i)(d)	INUCLEAR RADIATION	K2	2	4		
12 $\begin{array}{ c c c c c c } \hline N3 & 3 & 2 \\ \hline (c) & \text{Nuclear radiation} & \text{K1} & 1 & 1 \\ \hline (a) & \text{Vectors and scalars} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Velocity-time graphs} & \text{K3} & 3 & 1 \\ \hline (b)(i) & \text{Acceleration} & \text{S4} & 3 & 2 \\ \hline (c) & \text{Vectors and scalars} & \text{K3} & 3 & 1 \\ \hline (c) & \text{Vectors and scalars} & \text{K3} & 3 & 1 \\ \hline (c) & \text{Vectors and scalars} & \text{K3} & 3 & 1 \\ \hline (b) & \text{Newton's laws} & \text{K2} & 1 & 1 & 1 \\ \hline (b) & \text{Newton's laws} & \text{K3} & 3 & 1 \\ \hline (c) & \text{Newton's laws} & \text{K3} & 3 & 1 \\ \hline (c) & \text{Newton's laws} & \text{K3} & 3 & 2 \\ \hline 10 & \text{Dynamics} & \text{K2} & 3 & 2 \\ \hline 11 & (b) & \text{Projectile motion} & \text{S2} & 1 & 1 \\ \hline (b) & \text{Projectile motion} & \text{S2} & 1 & 1 \\ \hline (c) & \text{Energy} & \text{K3} & 3 & 2 \\ \hline (c) & \text{Lectromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & \text{Electromagnetic spectrum} & \text{K1} & 1 & 1 \\ \hline (b)(i) & $	/	(b)(ii)	Electrical power	54 K2))	ີ ວ		
12 B $(a) Vectors and scalars (b)(i) Velocity-time graphs (b)(i) Velocity-time graphs (c) Vectors and scalars (c) Vectors (c) Vector$		(c)	Nuclear radiation	K1	3 1	۷		
$8 \frac{(a)}{(b)(i)} \frac{Velocity-time graphs}{Velocity-time graphs} = \frac{K3}{K3} = \frac{1}{3} \frac{(b)(i)}{(b)(i)} \frac{Acceleration}{Acceleration} = \frac{K3}{S4} = \frac{3}{3} \frac{2}{(c)} \frac{(c)}{Vectors and scalars} = \frac{K3}{K3} = \frac{3}{3} \frac{(a)}{(c)} \frac{Newton's laws}{(c)} = \frac{K2}{K3} = \frac{1}{3} \frac{(a)}{K3} \frac{Newton's laws}{K3} = \frac{K2}{K3} \frac{1}{3} \frac{1}{(c)} \frac{Newton's laws}{(c)} \frac{K2}{K3} = \frac{3}{3} \frac{2}{2} \frac{1}{K3} \frac{1}{K3} \frac{3}{K3} \frac{2}{K3} \frac{1}{K3} \frac{1}{$		(a)	Vectors and scalars	K1	1			
$8 \frac{(x_{1})^{2}}{(b)(ii)} \xrightarrow{\text{line graphe}} 160 \frac{1}{60} \frac{1}{60$	_	(b)(i)	Velocity-time graphs	K3	3			
$12 \qquad \begin{array}{c c c c c c c c c c c c c c c c c c c $	8	(b)(ii)	Acceleration	S4	3	2		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		(C)	Vectors and scalars	K3	3			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		(a)	Newton's laws	K2	1	1		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	۵	(b)	Newton's laws	K3	3			
K33210DynamicsK23211(a)Projectile motionS2111(b)Projectile motionK221(c)EnergyK333(a)(i)Electromagnetic spectrumK11(a)(ii)CosmologyS43(b)(i)Electromagnetic spectrumK11(b)(ii)Electromagnetic spectrumK11(b)(ii)Electromagnetic spectrumK11	9	(c)	Newton's laws	S4	1	1		
10DynamicsK23211(a)Projectile motionS21(b)Projectile motionK221(c)EnergyK33(a)(i)Electromagnetic spectrumK11(a)(ii)CosmologyS43(b)(i)Electromagnetic spectrumK11(b)(i)Electromagnetic spectrumK11(b)(ii)Electromagnetic spectrumS61		(0)		K3	3	2		
(a)Projectile motionS21(b)Projectile motionK221(c)EnergyK33(a)(i)Electromagnetic spectrumK11(a)(ii)CosmologyS43(b)(i)Electromagnetic spectrumK11(b)(i)Electromagnetic spectrumK11(b)(i)Electromagnetic spectrumK11(b)(ii)Electromagnetic spectrumS61	10		Dynamics	K2	3	2		
III(b)Projectile motionK221(c)EnergyK33(a)(i)Electromagnetic spectrumK11(a)(ii)CosmologyS43(b)(i)Electromagnetic spectrumK11(b)(ii)Electromagnetic spectrumK11(b)(ii)Electromagnetic spectrumS61		(a)	Projectile motion	S2	1	4		
(c)EnergyK33(a)(i)Electromagnetic spectrumK11(a)(ii)CosmologyS43(b)(i)Electromagnetic spectrumK11(b)(ii)Electromagnetic spectrumS61	11	(D)		K2	2	1		
12(a)(i)CosmologyS43(a)(ii)CosmologyS43(b)(i)Electromagnetic spectrumK11(b)(ii)Electromagnetic spectrumS61		(C)	Electromagnetic spectrum	K.3	3 1			
12(a)(ii)Cosinology545(b)(i)Electromagnetic spectrumK11(b)(ii)Electromagnetic spectrumS61		(a)(l)			2			
(b)(ii) Electromagnetic spectrum S6 1	12	(a)(ii) (b)(i)	Electromagnetic spectrum	54 K1	3 1			
		(b)(ii)	Electromagnetic spectrum	S6	1			

1. This question paper was set pre-2018, and so

i) the total number of mutiple-choice marks is 20 rather than 25

ii) the total number of extended-response marks is 90 rather than 110

iii) the targets for percentages of marks assigned to each skill area differ from those in post-2017 question papers

iv) the approach to marking changed for some question types following the publication of updated Physics:general marking principles in 2017.

2. The assignment was part of the course assessment in this year, and the target of 30% A-type marks was taken over both assignment and question paper components of the course assessment, rather than the question paper alone.

2018 National 5 Physics Question Paper						
Question	Part	Course Content	Skills assessed	Marks	A-type Marks	
Section 1	<u>г</u>		I		1	
1		Vectors and scalars	K1	1		
2		Vectors and scalars	54 K2	1	1	
3			K2 K3	1	1	
5		Space exploration	K1	1		
6		Space exploration	S6	1		
7		Space exploration	K2	1		
8		Space exploration	S6	1	1	
9		Cosmology	S4	1		
10		Cosmology	S6	1		
11		Electrical charge carriers	K1	1		
12		Potential difference (voltage)	S6	1	1	
13		Practical electrical and electronic circuits	K2	1	1	
14		Flactical electrical and electronic circuits	K3	1		
15		Specific latent heat	R3 82	1		
17		Gas laws and the kinetic model	K3	1	1	
18		Gas laws and the kinetic model	S4	1		
19		Gas laws and the kinetic model	K3	1		
20		Wave parameters and behaviours	K1	1		
21		Electromagnetic spectrum	K1	1		
22		Non specific	S4	1		
23		Nuclear radiation	K3	1		
24		Nuclear radiation	S4	1		
25		Nuclear radiation	K1	1		
Section 2					•	
	(a)(i)(A)	Vectors and scalars	S4	2		
1	(a)(I)(B)	Vectors and scalars	54	2	1	
	(a)(ll) (b)	Gas laws and the kinetic model	K2	<u> </u>	1	
	(b) (a)(i)	Vectors and scalars	S1	1	1	
	(a)(ii)	Vectors and scalars	К3	2		
2	(a)(iii)	Acceleration	K3	3	2	
	(b)	Velocity-time graphs	S4	3		
	(C)	Velocity-time graphs	S3	2	2	
	(a)	Energy	K3	3		
	(b)(i)	Energy	K3	3		
3	(b)(ii)	Energy	K2	1	1	
	(c)(i)	Projectile motion	\$3	1		
	(C)(ii)	Projectile motion	K3	3		
	(a)(i)	Non specific	S4	1		
4	(a)(i)	Space exploration	K2	3	1	
	(b)(ii)	Space exploration	K1	1	1	
5		Space exploration	K2	3	2	
	(a)	Ohm's law	K3	3	_	
	(b)(i)	Practical electrical and electronic circuits	K1	1		
6	(b)(ii)	Practical electrical and electronic circuits	K3	1	1	
		Ohm's law	K3	3	2	
	(c)	Electrical charge carriers	K3	3		
7		Electricity	K2	3	2	
	(a)(i)	Specific heat capacity	K3	3		
o	(a)(II)	Specific neat capacity	K2	1 2	1	
o	(b)	Electrical power	<u>глэ</u> К э	3 1	∠ 1	
	(c)	Specific latent heat		3	2	
<u> </u>	(a)(i)	Gas laws and the kinetic model	S6	3	2	
	(a)(ii)	Gas laws and the kinetic model	K2	3	2	
9	(a)(iii)	Gas laws and the kinetic model	S5	1		
		Coolours and the binetic media	S7	1	1	
	(a)		K2	1	1	
	(a)	Wave parameters and behaviours	K3	3		
10	(b)(i)	Wave parameters and behaviours	K1	1		
	(b)(ii)	Wave parameters and behaviours	S4	1		
ļ	(b)(iii)	Wave parameters and behaviours	K3	3		
	(a)	Electromagnetic spectrum	K1	1	1	

2018 National 5 Physics Question Paper						
Question	Part	Course Content	Skills assessed	Marks	A-type Marks	
	(b)	Wave parameters and behaviours	S4	3		
11	(c)(i)(A)	Refraction of light	S3	1	1	
	(c)(i)(B)	Refraction of light	S3	1		
	(c)(ii)	Refraction of light	K2	2	2	
	(a)	Nuclear radiation	K1	1		
10	(b)	Nuclear radiation	K2	2	1	
12	(c)(i)	Nuclear radiation	K3	3		
	(c)(ii)	Nuclear radiation	K3	3		
	(a)(i)	Nuclear radiation	S1	1	1	
	(a)(ii)	Nuclear radiation	K1	1		
10	(b)(i)	Nuclear radiation	S3	3	1	
13	(b)(ii)	Nuclear radiation	S2	1		
	(c)(i)	Nuclear radiation	S7	2	1	
	(c)(ii)	Nuclear radiation	K3	3		

Note

The assignment was part of the course assessment in this year, and the target of 30% A-type marks was taken over both assignment and question paper components of the course assessment, rather than the question paper alone.

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	2019 National 5 Physics Question Paper						
Question	Part	Course	Skills	Marks	A-type		
Section 1		Content	assessed		Marks		
		Vectors and scalars	K1	1			
2		Acceleration	K3	1			
3		Acceleration	S4	1			
4		Projectile motion	K3	1	1		
5		Cosmology	S6	1	1		
6		Space exploration	K1	1			
7		Space exploration	K3	1	1		
8		Electrical charge carriers	K3	1			
9		Ohm's law	K3	1			
10		Practical electrical and electronic circuits	S6	1			
11		Practical electrical and electronic circuits	K2	1	1		
12		Practical electrical and electronic circuits	S6	1	1		
13		Specific latent heat	\$2	1			
14		Non specific	S4	1			
15		Gas laws and the kinetic model	K2	1			
16		Gas laws and the kinetic model	K3	1	1		
17		Wave parameters and behaviours	<u>S4</u>	1			
18		vvave parameters and behaviours	K3	1			
19		vvave parameters and behaviours	56	1			
20		Refraction of light	54	1			
21		Nuclear radiation	50	1			
22		Nuclear radiation	r.3 122	1	1		
23		Nuclear radiation	<u> </u>	1	1		
24		Nuclear radiation	50 S4	1			
Section 2				1			
	(a)(i)	Vectors and scalars	S4	2			
	(a)(ii)	Vectors and scalars	S4	2	1		
	(b)	Vectors and scalars	K3	3	1		
1	(2)		K3	2			
	(c)	Vectors and scalars	S4	1	1		
	(d)	Newton's laws	K2	1	1		
	(a)(i)	Acceleration	K3	2			
	(a)(ii)	Newton's laws	K3	3			
2	(a)(iii)(A)	Newton's laws	S4	1	1		
	(a)((iii)(B)	Newton's laws	K2	1			
	(b)	Velocity-time graphs	S4	3			
3		Space exploration	K2	3	2		
	(a)	Cosmology	S6	1			
	(b)(i)	Cosmology	K1	1			
4	(b)(ii)	Cosmology	S4	3			
	(c)(i)	Space exploration	K2	1	1		
	(c)(ii)	Space exploration	K1	1			
	(a)(i)	Electricity	\$3	3	1		
_	(a)(ii)	Practical electrical and electronic circuits	S6	2			
5	(a)(iii)		S5	1			
	(a)(iv)	Electricity	S7	1			
	(D)	Practical electrical and electronic circuits	K2	2	2		
	(a)(i)	Practical electrical and electronic circuits	K3	3			
6		Electrical power	K3	1			
b	(a)(II)	Electrical power	K3	<u></u> 3	4		
	(D)(I) (b)(ii)		r.j Ce	4 2	1		
	(II)(U) (a)	Electrical power	30 K2	2			
	(a) (b)(i)	Specific heat capacity	K3	2			
7	(0)(1)		<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	1	1		
'	(b)(ii)	Specific latent heat	K3	3	2		
	(b)(iii)	Specific heat capacity	K2	1	<u> </u>		
	(s)(iii) (a)	Newton's laws	<u>S3</u>	2	1		
	(h)	Gas laws and the kinetic model	K3	3	· ·		
8			K3	1	1		
U U	(c)(i)	Gas laws and the kinetic model	K3		2		
	(c)(ii)	Gas laws and the kinetic model	K2	3	2		
	(a)	Wave parameters and behaviours	K3	3			
•	(b)	Wave parameters and behaviours	K2	2	1		
9	(c)(i)	Energy	K3	3			

2019 National 5 Physics Question Paper					
Question	Part	Course Content	Skills assessed	Marks	A-type Marks
	(c)(ii)	Energy	K2	1	1
	(a)	Electromagnetic spectrum	K1	1	
	(b)	Electromagnetic spectrum	K1	1	
10	(c)(i)(A)	Electromagnetic spectrum	K1	1	
	(c)(i)(B)	Electromagnetic spectrum	K1	1	
	(c)(ii)	Electromagnetic spectrum	K1	1	
	(a)(i)	Refraction of light	S3	2	1
11	(a)(ii)	Refraction of light	K1	1	
	(a)(iii)	Refraction of light	S3	1	
	(b)	Refraction of light	K2	2	1
	(a)	Nuclear radiation	S1	3	2
	(b)	Nuclear radiation	S7	1	1
12	(c)(i)	Nuclear radiation	K3	3	
	(c)(ii)	Nuclear radiation	K3	3	
	(d)	Nuclear radiation	K2	2	2
13	OEQ	Radiation	K2	3	2

Note

The assignment was part of the course assessment in this year, and the target of 30% A-type marks was taken over both assignment and question paper components of the course assessment, rather than the question paper alone.

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2022 National 5 Physics Question Paper						
Question	Part	Course Content	Skills assessed	Marks	A-type Marks	
Section 1						
1		Vectors and scalars	K1	1		
2		Acceleration	S6	1		
3		Velocity-time graphs	S4	1		
4		Newton's laws	K2	1	1	
5		Energy	S4	1	1	
6		Projectile motion	K2	1	1	
7		Space exploration	K1	1		
8		Space exploration	S6	1		
9		Space exploration	S6	1		
10		Space exploration	K3	1		
10		Electrical charge carriers	K3	1		
12		Ohm's law	S6	1	1	
12		Practical electrical and electronic circuits	<u> </u>	1		
14		Practical electrical and electronic circuits	64 K1	1		
14		Specific latent best	KI Se	1	1	
15		Specific latent heat	50	1		
16		Specific latent neat	K3			
1/		Gas laws and the kinetic model	K3	1	1	
18		Properties of matter	S4	1		
19		Wave parameters and behaviours	K1	1		
20		Wave parameters and behaviours	K3	1	1	
21		Electromagnetic spectrum	K1	1		
22		Nuclear radiation	S6	1		
23		Nuclear radiation	K3	1		
24		Nuclear radiation	S6	1		
25		Nuclear radiation	S4	1		
Section 2						
	(a)(i)	Vectors and scalars	S4	2		
	(a)(ii)	Vectors and scalars	S4	2	1	
1	(b)(i)	Vectors and scalars	K3	3		
	(b)(ii)	Vectors and scalars	S4	2	1	
	(a)(i)	Dynamics		- 3		
	(a)(ii)	Dynamics	<u> </u>	1		
2	(a)(iii) (a)(iii)	Dynamics	<u> </u>	1		
2	(a)(ii) (b)(i)	Dynamics	51 51	1		
	(b)(i) (b)(ii)	Dynamics	51 81		2	
	(D)(II) (c)(i)	Dynamics Space exploration		2	2	
	(a)(l)		<u>k3</u>	3		
3	(a)(II)		53	2		
	(a)(III)		K3	4	3	
	(b)	Space exploration	K2	2	1	
4		Space	K2	3	2	
	(a)(i)	Cosmology	K3	3		
	(a)(ii)	Space	S4	1		
5	(a)(iii)	Vectors and scalars	K3	3		
0	(b)	Cosmology	K2	1		
	(c)(i)	Cosmology	K1	1		
	(c)(ii)	Cosmology	K2	1		
	(a)	Electrical power	K2	2	2	
	(b)	Ohm's law	K3	3		
б	(c)(i)	Practical electrical and electronic circuits	K3	3	1	
	(c)(ii)	Practical electrical and electronic circuits	S6	2	2	
	(a)	Electrical power	K1	1		
	(h)	Electrical power	K3	3		
7	(c)(i)	Practical electrical and electronic circuits	K1	1		
'		Practical electrical and electronic circuits	k?	2	1	
		Practical electrical and electronic circuits	K2	1	1	
	I (U)(III)	ה המטווטמו בובטנווטמו מווע פופטנוטרווט טווטעונא	1\2	1 1	1 1	

	(a)	Electrical power	K3	3	
8	(b)(i)	Specific heat capacity	K3	4	1
	(b)(ii)	Specific heat capacity	K2	1	
	(2)	Gas laws and the kinetic model	S4	2	
	(a)	Gas laws and the kinetic model	S6	1	1
9	(b)	Gas laws and the kinetic model	S5	1	
	(C)	Gas laws and the kinetic model	S7	1	
	(d)	Gas laws and the kinetic model	K2	3	1
	(a)(i)	Wave parameters and behaviours	S4	1	
10	(a)(ii)	Wave parameters and behaviours	K3	2	
10	(a)(iii)	Wave parameters and behaviours	K3	3	
	(b)	Wave parameters and behaviours	S3	2	1
	(a)(i)	Refraction of light	K1	1	
11	(a)(ii)	Refraction of light	S3	1	1
11	(a)(iii)	Refraction of light	K1	1	
	(b)	Electrical power	K3	3	
	(a)(i)	Waves	S6	1	
12	(a)(ii)	Waves	S5	2	1
	(b)	Non specific	K2	3	2
	(a)	Nuclear radiation	K2	2	1
13	(b)(i)	Nuclear radiation	S6	1	
15	(b)(ii)	Nuclear radiation	S6	2	1
	(C)	Nuclear radiation	K3	4	2
	(a)	Nuclear radiation	K1	1	
14	(b)(i)	Electrical power	K3	2	
14		Nuclear radiation	S4	2	2
	(b)(ii)	Nuclear radiation	K2	1	1

Note

The assignment was not part of the course assessment in this year.