Skill code	Skill
K1	Demonstrating knowledge and understanding of physics by making accurate statements
K2	Providing descriptions and explanations, and integrating knowledge
K3	Applying knowledge of physics to new situations, interpreting information, and solving problems
S1	Planning or designing experiments/practical 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 valid conclusions and giving explanations supported by evidence/justification
S7	Evaluating experimental procedures, identifying sources of uncertainty and suggesting improvements

2015 Higher Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Maximum mark**	**A-type Marks**
Section 1					
1		Motion-equations and graphs	S2	1	
2		Motion-equations and graphs	K3	1	
3		Forces,energy and power	K3	1	
4		Forces,energy and power	S5	1	1
5		Forces,energy and power	K3	1	1
6		Forces,energy and power	K3	1	1
7		Special relativity	K3	1	
8		The expanding Universe	K3	1	
9		The Standard Model	K1	1	
10		Forces on charged particles	K3	1	1
11		Forces on charged particles	S5	1	
12		Nuclear reactions	K3	1	
13		Interference	K3	1	1
14		Uncertainties	K3	1	
15		Refraction of light	S6	1	1
16		Spectra	K1	1	
17		Monitoring and measuring AC	K1	1	
18		Monitoring and measuring AC	K3	1	1
19		Semiconductors and p-n junctions	K1	1	
20		Unspecified - skills	S4	1	
Section 2					
1	(a)(i)(A)	Gravitation	S2	1	
	(a)(i)(B)	Gravitation	K3	1	
	(a)(i)(C)	Gravitation	K3	1	
	(a)(ii)(A)	Gravitation	K3	3	
			S4	1	1
	(a)(ii)(B)	Gravitation	K3	3	
	(b)	Gravitation	S2	1	
			K2	1	1
2	(a)	Collisions, explosions, and impulse	K3	3	
	(b)(i)	Collisions, explosions, and impulse	K3	3	
	(b)(ii)	Collisions, explosions, and impulse	K1	1	
	(b)(iii)	Collisions, explosions, and impulse	S3	3	3
3	(a)	Gravitation	K3	3	
	(b)	Gravitation	K3	3	
4	(a)	Spectra	K2	2	
	(b)(i)	The expanding Universe	K2	2	1
	(b)(ii)	The expanding Universe	K3	2	
	(b)(iii)	The expanding Universe	K3	5	
5		The expanding Universe	K2	3	2
6	(a)	The Standard Model	K1	1	
	(b)(i)	The Standard Model	K3	3	
	(b)(ii)	The Standard Model	K3	2	1
7		Wave-particle duality	K2	3	2
8	(a)	Inverse square law	K1	1	
	(b)	Inverse square law	K3	2	
			S6	1	1
	(c)	Inverse square law	K3	3	
	(d)	Inverse square law	S7	2	2
	(e)	Inverse square law	S4	1	1
			K3	3	2
9	(a)(i)	Refraction of light	K2	1	
	(a)(ii)	Refraction of light	K3	3	
	(b)(i)	Interference	K3	5	3
	(b)(ii)	Interference	K2	3	3
10	(a)(i)	Electrical sources and internal resistance	K1	1	
	(a)(ii)	Electrical sources and internal resistance	K3	3	
	(a)(iii)	Electrical sources and internal resistance	S1	1	1
	(b)(i)	Electrical sources and internal resistance	S2	1	
	(b)(ii)	Electrical sources and internal resistance	S4	3	
	(b)(iii)(A)	Electrical sources and internal resistance	K3	3	2

	(b)(iii)(B)	Electrical sources and internal resistance	K2	2	2
11	(a)	Capacitors	K3	2	
	(b)	Capacitors	K3	3	
	(c)(i)	Current, potential difference, power, and resistance	K3	3	
	(c)(ii)	Capacitors	K2	1	1
	(c)(iii)	Capacitors	S5	2	1
12	(a)	Unspecified - skills	S3	3	1
	(b)	Unspecified - skills	S2	1	
	(c)	Unspecified - skills	S2	1	
	(d)	Unspecified - skills	S4	2	
	(e)	Unspecified - skills	S7	2	1

Notes
1. This question paper was set pre-2019, and so
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ii) the total number of extended-response marks is 110 rather than 130
iii) the targets for percentages of marks assigned to each skill area differ from those in post-2018 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 Higher Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Maximum mark**	**A-type Marks**
Section 1					
1		Motion-equations and graphs	K3	1	
2		Motion-equations and graphs	S6	1	1
3		Forces,energy and power	K3	1	
4		Collisions, explosions and impulse	K3	1	
5		Gravitation	K3	1	
6		The expanding Universe	K3	1	
7		The expanding Universe	S6	1	1
8		The Standard Model	S6	1	
9		The Standard Model	K1	1	
10		Nuclear reactions	S4	1	1
11		Wave-particle duality	S2	1	
12		Wave-particle duality	K3	1	
13		Interference	K3	1	1
14		Refraction of light	K1	1	
15		Inverse square law	K3	1	
16		Spectra	S6	1	1
17		Monitoring and measuring AC	K3	1	
18		Current, potential difference, power, and resistance	K3	1	
19		Electrical sources and internal resistance	S6	1	1
20		Capacitors	K3	1	
Section 2					
1	(a)(i)	Gravitation	K3	1	
	(a)(ii)	Gravitation	K3	1	
	(b)	Gravitation	K3	2	
	(c)	Gravitation	K3	3	
	(d)	Forces,energy and power	S3	2	1
2	(a)(i)	Uncertainties	S4	1	
	(a)(ii)	Uncertainties	K3	2	
	(b)	Uncertainties	S4	4	1
	(c)(i)	Forces,energy and power	K3	3	
	(c)(ii)	Forces,energy and power	K3	3	
	(c)(iii)	Forces,energy and power	S6	1	1
3	(a)	Collisions, explosions, and impulse	K1	1	
	(b)	Collisions, explosions, and impulse	K3	3	
	(c)	Collisions, explosions, and impulse	K3	3	1
			S6	1	1
4	(a)	Special relativity	S4	2	2
	(b)(i)	Special relativity	K2	2	1
	(b)(ii)	Special relativity	K3	3	
	(b)(iii)	Special relativity	S6	1	1
5	(a)(i)	The expanding Universe	S2	1	
			K3	1	
	(a)(ii)	The expanding Universe	S7	1	1
	(b)	The expanding Universe	K3	3	
6		Forces on charged particles	K2	3	2
7	(a)	Forces on charged particles	K3	3	
	(b)	Forces on charged particles	K3	3	
			S4	1	1
	(c)	Forces on charged particles	S3	1	1
8	(a)	Nuclear reactions	K2	1	1
	(b)	Nuclear reactions	S4	1	
			K3	3	
	(c)	Nuclear reactions	K2	1	1
	(d)	Forces on charged particles	S6	1	
9	(a)	Interference	K1	1	
	(b)	Interference	K2	1	
	(c)	Interference	K3	3	
	(d)	Interference	S5	2	2
10	(a)	Refraction of light	K3	3	
	(b)	Refraction of light	K3	3	
	(c)	Refraction of light	S3	1	1

11		Current, potential difference, power, and resistance	K2	3	2
12	(a)(i)	Electrical sources and internal resistance	K3	3	
			S4	1	1
	(a)(ii)	Electrical sources and internal resistance	K2	3	2
	(b)(i)	Semiconductors and p-n junctions	K2	3	2
	(b)(ii)(A)	Spectra	K3	4	4
	(b)(ii)(B)	Spectra	S2	1	
13	(a)(i)	Capacitors	K1	1	
	(a)(ii)	Capacitors	K3	3	
	(b)	Current, potential difference, power, and resistance	K3	3	
	(c)	Capacitors	K2	2	2
14	(a)	Unspecified - skills	S4	2	
	(b)(i)	Unspecified - skills	S3	3	
	(b)(ii)	Unspecified - skills	S4	1	

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ii) the total number of extended-response marks is 110 rather than 130
iii) the targets for percentages of marks assigned to each skill area differ from those in post-2018 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.

2017 Higher Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Maximum mark**	**A-type Marks**
Section 1					
1		Motion-equations and graphs	S4	1	
2		Forces,energy and power	K3	1	1
3		Forces,energy and power	S6	1	
4		Special relativity	K3	1	
5		The expanding Universe	K3	1	
6		The expanding Universe	K1	1	
7		The expanding Universe	K1	1	
8		Nuclear reactions	S2	1	
9		Wave-particle duality	K2	1	1
10		Wave-particle duality	K3	1	
11		Interference	K1	1	
12		Refraction of light	K1	1	
13		Refraction of light	K3	1	1
14		Inverse square law	S7	1	1
15		Inverse square law	K3	1	
16		Monitoring and measuring AC	S4	1	
17		Capacitors	K3	1	
18		Capacitors	K3	1	1
19		Semiconductors and p-n junctions	K1	1	
20		Unspecified - skills	S4	1	
Section 2					
1	(a)(i)	Motion-equations and graphs	K1	1	
	(a)(ii)	Motion-equations and graphs	K3	3	
	(b)(i)	The expanding Universe	K3	3	
	(b)(ii)	The expanding Universe	K2	1	1
2	(a)(i)	Collisions, explosions, and impulse	K3	3	
	(a)(ii)	Collisions, explosions, and impulse	K1	1	
	(b)(i)	Collisions, explosions, and impulse	K3	3	
	(b)(ii)	Uncertainties	S4	2	1
3	(a)(i)	Motion-equations and graphs	K3	3	
	(a)(ii)	Motion-equations and graphs	K3	3	2
	(b)	Motion-equations and graphs	S3	3	2
4		Unspecified	K2	3	2
5	(a)(i)	Forces on charged particles	K3	2	1
	(a)(ii)	Gravitation	K3	3	
	(b)(i)	The expanding Universe	K3	3	
	(b)(ii)	The expanding Universe	S5	1	
6	(a)	Spectra	S6	1	1
	(b)	Spectra	K3	3	
7	(a)	The Standard Model	K2	1	
	(b)(i)	The Standard Model	K2	2	2
	(b)(ii)	The Standard Model	S4	1	
	(c)(i)	The Standard Model	K1	1	
	(c)(ii)	The Standard Model	K1	1	
	(d)	Special relativity	K3	3	
8	(a)(i)	Forces on charged particles	K3	3	
	(a)(ii)	Forces on charged particles	K2	1	1
	(b)(i)	Forces on charged particles	S6	1	1
	(b)(ii)	Forces on charged particles	S6	2	2
	(c)	Forces,energy and power	K3	3	
9	(a)	Nuclear reactions	K1	1	
	(b)(i)	Nuclear reactions	K2	1	1
	(b)(ii)	Nuclear reactions	K3	4	
10	(a)	Interference	K2	1	
	(b)(i)	Interference	S4	3	2
	(b)(ii)	Interference	K3	3	
	(c)	Interference	S7	2	2
11		Refraction of light	K2	3	2
12	(a)	Electrical sources and internal resistance	K1	1	
	(b)(i)	Electrical sources and internal resistance	K3	2	
	(b)(ii)	Current, potential difference, power, and resistance	S4	1	

	(b)(iii)	Current, potential difference, power, and resistance	K3	3	
	(c)	Electrical sources and internal resistance	K3	4	3
13	(a)	Capacitors	K3	3	2
	(b)	Capacitors	K2	2	1
14	(a)	Semiconductors and p-n junctions	K1	1	
	(b)(i)	Current, potential difference, power, and resistance	K3	3	
	(b)(ii)	Semiconductors and p-n junctions	K2	1	1
15	(a)	Unspecified - skills	S4	2	
	(b)(i)	Unspecified - skills	S3	3	
	(b)(ii)	Unspecified - skills	S4	2	1
	(b)(iii)	Unspecified - skills	S4	3	2

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2018 Higher Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Maximum mark**	**A-type Marks**
Section 1					
1		Motion-equations and graphs	K3	1	
2		Motion-equations and graphs	S6	1	
3		Forces,energy and power	K3	1	1
4		Forces,energy and power	K3	1	1
5		Gravitation	K3	1	
6		Special relativity	K1	1	
7		Special relativity	K3	1	
8		The Standard Model	K1	1	
9		The Standard Model	K1	1	
10		Forces on charged particles	S5	1	
11		Nuclear reactions	S2	1	
12		Inverse square law	K3	1	1
13		Interference	K3	1	
14		Refraction of light	K3	1	
15		Current, potential difference, power, and resistance	K3	1	1
16		Current, potential difference, power, and resistance	K3	1	
17		Capacitors	K3	1	
18		Capacitors	K3	1	
19		Capacitors	S6	1	
20		Uncertainties	S4	1	
Section 2					
1	(a)(i)(A)	Motion-equations and graphs	K3	1	
	(a)(i)(B)	Motion-equations and graphs	K3	1	
	(a)(ii)	Motion-equations and graphs	K3	3	
	(a)(iii)	Motion-equations and graphs	K3	4	3
	(b)	Gravitation	K2	2	2
2	(a)(i)	Forces,energy and power	K3	3	
	(a)(ii)	Current, potential difference, power, and resistance	K3	3	
	(a)(iii)	Forces,energy and power	K2	2	2
	(b)	Forces,energy and power	S4	4	3
3	(a)	Collisions, explosions, and impulse	K3	2	
	(b)	Collisions, explosions, and impulse	K3	3	
	(c)	Collisions, explosions, and impulse	K2	2	1
4		Our dynamic Universe	K2	3	2
5	(a)	The expanding Universe	K1	1	
	(b)(i)	The expanding Universe	S4	2	
	(b)(ii)(A)	The expanding Universe	S6	1	
	(b)(ii)(B)	The expanding Universe	S6	1	1
	(c)	The expanding Universe	K1	1	
6	(a)(i)	Forces on charged particles	K3	2	
	(a)(ii)	Forces on charged particles	K3	3	
	(b)	Forces on charged particles	S6	2	2
	(c)	Forces on charged particles	K2	3	2
7	(a)	Wave-particle duality	S7	1	
	(b)(i)	Wave-particle duality	K1	1	
	(b)(ii)	Wave-particle duality	K2	2	1
	(c)	Wave-particle duality	S3	2	1
	(d)	Wave-particle duality	K2	1	1
8	(a)(i)	Interference	K2	1	
	(a)(ii)	Interference	K3	3	
	(a)(iii)	Interference	K2	2	2
	(a)(iv)	Interference	K1	1	
	(b)	Interference	S6	1	1
9	(a)	Refraction of light	K3	2	
	(b)(i)	Refraction of light	K1	1	
	(b)(ii)	Refraction of light	K3	3	
	(b)(iii)	Refraction of light	S3	4	4
	(c)	Refraction of light	S6	1	1
10	(a)	Spectra	K1	2	
	(b)	Spectra	K3	3	
	(c)	The expanding Universe	K3	5	

11	(a)	Electrical sources and internal resistance	K1	1	
	(b)	Electrical sources and internal resistance	S4	3	
	(c)	Semiconductors and p-n junctions	K2	1	1
12	(a)(i)	Monitoring and measuring AC	S4	1	
	(a)(ii)	Monitoring and measuring AC	S4	3	
	(a)(iii)	Semiconductors and p-n junctions	K2	2	2
	(b)	Current, potential difference, power, and resistance	K3	5	
13	(a)	Unspecified - skills	S4	2	
	(b)(i)	Unspecified - skills	S3	3	
	(b)(ii)	Unspecified - skills	S4	2	
	(b)(iii)	Unspecified - skills	S4	2	2

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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.

2019 Higher Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Maximum mark**	**A-type Marks**
Paper 1					
1		Motion-equations and graphs	K3	1	
2		Motion-equations and graphs	K3	1	
3		Motion-equations and graphs	S4	1	
4		Motion-equations and graphs	S6	1	
5		Forces,energy and power	S6	1	1
6		Collisions, explosions, and impulse	K1	1	
7		Forces,energy and power	S4	1	
8		Special relativity	K3	1	1
9		The expanding Universe	K3	1	
10		The expanding Universe	K1	1	
11		Forces on charges particles	K3	1	
12		Forces on charges particles	S6	1	
13		The Standard Model	K1	1	
14		Nuclear reactions	S2	1	
15		Wave-particle duality	K1	1	
16		Wave-particle duality	K3	1	1
17		Interference	K3	1	1
18		Refraction of light	K3	1	
19		Spectra	S4	1	
20		Monitoring and measuring AC	K3	1	
21		Monitoring and measuring AC	S5	1	1
22		Uncertainties	K3	1	1
23		Current, potential difference, power, and resistance	K3	1	
24		Semiconductors and p-n junctions	S6	1	1
25		Uncertainties	K1	1	
Paper 2					
1	(a)(i)	Motion-equations and graphs	S4	2	
	(a)(ii)	Motion-equations and graphs	K3	3	
	(b)(i)	Collisions, explosions, and impulse	K3	3	
	(b)(ii)	Collisions, explosions, and impulse	K3	3	
	(c)	Collisions, explosions, and impulse	S3	2	1
2	(a)	Forces,energy and power	K3	3	
	(b)	Forces,energy and power	S4	3	3
	(c)	Forces,energy and power	K2	2	1
3		Our dynamic Universe	K2	3	2
4	(a)	Gravitation	S4	1	
	(b)	Gravitation	K3	3	
	(c)	Forces,energy and power	K3	3	
	(d)	Gravitation	K2	3	3
5	(a)(i)	The expanding Universe	K1	1	
	(a)(ii)	The expanding Universe	K3	3	
	(b)	The expanding Universe	S4	2	
6	(a)	The expanding Universe	S3	2	1
	(b)	The expanding Universe	S4	3	1
7	(a)(i)	The Standard Model	K2	1	
	(a)(ii)	The Standard Model	K1	1	
	(b)	The Standard Model	S4	2	
	(c)(i)	The Standard Model	K1	1	
	(c)(ii)	Special relativity	K3	3	
	(d)(i)	Nuclear reactions	S4	1	
	(d)(ii)	Nuclear reactions	K3	3	
8	(a)	Nuclear reactions	K1	1	
	(b)	Nuclear reactions	S4	1	
			K3	3	
	(c)	Nuclear reactions	S4	2	2
9	(a)(i)	Spectra	S4	1	1
			K3	3	2
	(a)(ii)	Inverse square law	K3	4	3
	(b)	Inverse square law	S1	2	
			S6	1	1
	(a)	Interference	K2	3	1

10	(b)(i)	Interference	K3	3	
	(b)(ii)	Interference	S2	1	
	(b)(iii)	Interference	S7	2	2
11	(a)	Refraction of light	K3	3	
	(b)	Refraction of light	K3	3	
	(c)	Refraction of light	K2	3	3
12	(a)(i)	Electrical sources and internal resistance	K1	1	
	(a)(ii)	Electrical sources and internal resistance	K3	3	
	(a)(iii)	Electrical sources and internal resistance	K2	2	2
	(b)(i)	Electrical sources and internal resistance	K3	3	
	(b)(ii)	Current, potential difference, power, and resistance	K3	3	
13	(a)	Capacitors	K3	3	
	(b)	Capacitors	S3	2	1
	(c)	Capacitors	S1	1	1
	(d)	Capacitors	K2	3	2
14	(a)	Semiconductors and p-n junctions	K1	1	
	(b)	Semiconductors and p-n junctions	K2	2	1
	(c)	Semiconductors and p-n junctions	K1	1	
	(d)	The Standard Model	K3	2	1
15	(a)	Unspecified - skills	S1	2	
	(b)(i)	Unspecified - skills	S3	3	1
	(b)(ii)	Unspecified - skills	S2	1	1
	(b)(iii)(A)	Unspecified - skills	S5	1	1
	(b)(iii)(B)	Unspecified - skills	S7	1	1
	(c)	Unspecified - skills	S4	2	

2022 Higher Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Maximum mark**	**A-type Marks**
Paper 1					
1		Motion-equations and graphs	S6	1	
2		Motion-equations and graphs	S6	1	
3		Forces,energy and power	K3	1	
4		Forces,energy and power	K3	1	1
5		Forces,energy and power	K3	1	1
6		Forces,energy and power	K3	1	
7		Special relativity	K3	1	
8		The expanding Universe	K1	1	
9		The expanding Universe	K3	1	
10		Forces on charged particles	S6	1	
11		The Standard Model	S4	1	
12		The Standard Model	K1	1	
13		Nuclear reactions	S4	1	1
14		Nuclear reactions	K3	1	
15		Inverse square law	K3	1	
16		Interference	S5	1	1
17		Refraction of light	K1	1	
18		Monitoring and measuring AC	K3	1	
19		Current, potential difference, power, and resistance	K3	1	1
20		Current, potential difference, power, and resistance	K3	1	
21		Electrical sources and internal resistance	K3	1	
22		Capacitors	K3	1	1
23		Capacitors	S5	1	
24		Semiconductors and p-n junctions	K1	1	
25		Unspecified - skills	S4	1	
Paper 2					
1	(a) (i) (A)	Gravitation	K3	1	
	(a) (i) (B)	Gravitation	K3	1	
	(a) (ii)	Motion-equations and graphs	K3	2	
	(a) (iii)	Motion-equations and graphs	K3	3	
	(b)	Gravitation	K2	2	1
2	(a) (i)	Motion-equations and graphs	K3	3	
	(a) (ii)	Forces,energy and power	K3	3	
	(b)	Uncertainties	S1	1	1
3	(a) (i)	Collisions, explosions, and impulse	K3	3	
	(a) (ii)	Collisions, explosions, and impulse	K3	3	
	(b)	Collisions, explosions, and impulse	K3	3	
	(c)	Collisions, explosions, and impulse	K2	2	2
	(d) (i)	Semiconductors and p-n junctions	K1	1	
	(d) (ii)	Semiconductors and p-n junctions	K2	3	2
4		Gravitation	K2	3	2
5	(a)	The expanding Universe	K2	2	1
	(b) (i)	The expanding Universe	K3	3	
	(b) (ii)	The expanding Universe	K3	5	
	(c) (i)	Gravitation	K3	3	
	(c) (ii)	The Standard Model	S6	1	1
6	(a)	The Standard Model	K1	1	
	(b) (i)	The Standard Model	S6	1	
	(b) (ii)	The Standard Model	K1	1	
	(c) (i)	Motion-equations and graphs	K3	3	
	(c) (ii)	Special relativity	K3	3	
	(d)	Special relativity	K2	1	1
	(e)	The Standard Model	K2	3	2
7	(a)	Forces on charged particles	K2	2	2
	(b) (i)	Forces on charged particles	K3	2	
	(b) (ii)	Forces on charged particles	K3	3	
	(b) (iii)	Forces on charged particles	K3	3	2
			S4	1	1
	(c)	Forces on charged particles	K2	2	2
	(a) (i)	Inverse square law	K3	3	2
			S4	1	

8	(a) (ii)	Inverse square law	S6	1	1
	(b) (i)	Spectra	K1	1	
	(b) (ii)	Spectra	K3	5	3
	(b) (iil)	Spectra	K2	2	2
9	(a)	Wave-particle duality	S2	1	
	(b)	Wave-particle duality	K3	3	2
			S2	1	
10	(a)	Interference	K1	1	
	(b)	Interference	K2	1	
	(c)	Interference	K3	2	
			S4	2	2
	(d)	Interference	S6	1	
11	(a)	Refraction of light	K3	3	
	(b)	Refraction of light	K3	3	
	(c)	Refraction of light	S5	1	1
			S6	1	1
12	(a)	Electrical sources and internal resistance	K1	1	
	(b) (i)	Electrical sources and internal resistance	S2	1	
	(b) (ii)	Electrical sources and internal resistance	S4	3	
	(c)	Electrical sources and internal resistance	S1	1	
	(d)	Electrical sources and internal resistance	K2	2	2
	(e)	Electrical sources and internal resistance	S3	2	
13	(a)	Capacitors	S1	2	
	(b) (i)	Capacitors	K3	3	
	(b) (ii)	Capacitors	S7	1	
14	(a)	Unspecified - skills	S3	3	
	(b)	Unspecified - skills	S4	2	
	(c)	Unspecified - skills	S4	2	2

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

2023 Higher Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Maximum mark**	**A-type Marks**
Paper 1					
1		Motion-equations and graphs	S5	1	
2		Motion-equations and graphs	K3	1	1
3		Forces,energy and power	K3	1	
4		Forces,energy and power	K3	1	1
5		Gravitation	K3	1	
6		Gravitation	K3	1	1
7		Special relativity	K3	1	
8		The expanding Universe	K1	1	
9		The expanding Universe	S6	1	
10		Forces on charged particles	S6	1	
11		The Standard Model	K1	1	
12		Nuclear reactions	K3	1	
13		Wave particle duality	K1	1	
14		Wave particle duality	K2	1	
15		Interference	S4	1	1
16		Interference	K3	1	
17		Wave particle duality	S6	1	
18		Refraction of light	S6	1	1
19		Monitoring and measuring AC	K3	1	
20		Current, potential difference, power, and resistance	K3	1	
21		Electrical sources and internal resistance	S4	1	
22		Capacitors	K1	1	
23		Semiconductors and p-n junctions	K1	1	
24		Unspecified - skills	S6	1	
25		Unspecified - skills	S4	1	
Paper 2					
1	(a)	Motion-equations and graphs	K3	3	
	(b)	Motion-equations and graphs	K3	3	
	(c)	Motion-equations and graphs	S3	2	
2	(a)	Forces,energy and power	K3	2	
	(b)	Forces,energy and power	K3	2	
			S4	2	2
	(c)	Forces,energy and power	K2	2	1
3	(a)	Collisions, explosions and impulse	K3	3	
	(b)	Collisions, explosions and impulse	K3	3	
			S6	1	1
	(c)	Collisions, explosions and impulse	K3	3	
	(d)	Collisions, explosions and impulse	K2	2	1
4	(a)	Special relativity	S4	1	
	(b)	Special relativity	S4	1	
	(c) (i)	Special relativity	K2	2	1
	(c) (ii)	Special relativity	K3	3	
5	(a)(i)	The expanding Universe	K3	3	
	(a)(ii)	The expanding Universe	K2	2	2
	(b)(i)	Monitoring and measuring AC	K3	1	
	(b)(ii)	Semiconductors and p-n junctions	K2	2	2
	(b)(iii)(A)	Wave particle duality	K3	1	1
		Spectra	K3	3	3
	(b)(iii)(B)	Semiconductors and p-n junctions	K2	2	2
6		The expanding Universe	K2	3	2
7	(a)(i)(A)	Nuclear reactions	S4	1	
	(a)(i)(B)	Nuclear reactions	S2	1	
	(a)(ii)(A)	The Standard Model	K1	1	
	(a)(ii)(B)	The Standard Model	K1	1	
	(b)(i)	Forces on charged particles	K3	5	3
	(b)(ii)	Forces on charged particles	K2	1	1
	(c)	Forces on charged particles	S5	1	
8	(a)	Inverse square law	S1	2	
	(b)(i)	Inverse square law	K1	1	
	(b)(ii)	Inverse square law	S4	2	
			S6	1	1

	(c)	Inverse square law	K2	2	2
9		Wave particle duality	K2	3	2
10	(a)	Spectra	K1	1	
	(b)(i)	Spectra	K2	2	1
	(b)(ii)	Spectra	S6	2	2
	(c)(i)	Spectra	S4	1	
	(c)(ii)(A)	Spectra	K3	3	
	(c)(ii)(B)	Spectra	S2	1	
	(c)(ii)(C)	The expanding Universe	K3	5	
11	(a)(i)	Refraction of light	K3	3	
	(a)(ii)	Refraction of light	S4	2	
	(b)(i)	Refraction of light	K1	1	
	(b)(ii)	Refraction of light	K3	3	
	(c)	Refraction of light	K3	1	1
			S3	2	1
12	(a)(i)	Current, potential difference, power, and resistance	K3	5	
	(a)(ii)	Electrical sources and internal resistance	K3	3	
	(a)(iii)	Electrical sources and internal resistance	K3	3	
	(b)	Current, potential difference, power, and resistance	K2	2	2
13	(a)(i)	Capacitors	K3	3	
	(a)(ii)	Uncertainties	S4	3	2
	(b)	Capacitors	S4	2	
14	(a)	Unspecified - skills	S3	3	
	(b)	Unspecified - skills	S4	2	1
	(c)	Unspecified - skills	S4	2	2
	(d)	Unspecified - skills	S7	1	

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

2024 Higher Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Maximum mark**	**A-type Marks**
Paper 1					
1		Motion - equations and graphs	K3	1	
2		Motion - equations and graphs	S6	1	
3		Forces, energy and power	K3	1	1
4		Forces, energy and power	S6	1	1
5		Forces, energy and power	K3	1	
6		Collisions, explosions and impulse	K3	1	
7		Special relativity	K3	1	
8		Special relativity	K3	1	
9		The expanding Universe	S6	1	
10		The Standard Model	K1	1	
11		The Standard Model	K1	1	
12		Nuclear reactions	S2	1	1
13		Nuclear reactions	K3	1	
14		Inverse square law	S7	1	
15		Interference	K1	1	
16		Spectra	K2	1	
17		Refraction of light	K3	1	
18		Current, potential difference, power and resistance	K3	1	1
19		Current, potential difference, power and resistance	K3	1	
20		Electrical sources and internal resistance	K3	1	
21		Capacitors	K3	1	
22		Capacitors	S5	1	
23		Semiconductors and p-n junctions	K1	1	
24		Semiconductors and p-n junctions	K1	1	
25		Semiconductors and p-n junctions	S6	1	1
Paper 2					
1	(a)(i)(A)	Gravitation	K3	1	
	(a)(i)(B)	Gravitation	K3	1	
	(a)(ii)	Gravitation	K3	3	
	(a)(iii)	Gravitation	K3	4	2
	(b)(i)	The expanding Universe	K3	3	
	(b)(ii)	Collisions, explosions and impulse	K2	2	
2	(a)(i)	Forces, energy and power	K3	3	
	(a)(ii)	Forces, energy and power	S4	1	
	(b)(i)	Motion - equations and graphs	K3	2	
	(b)(ii)	Forces, energy and power	K3	2	
			S4	1	1
	(b)(iii)	Forces, energy and power	S6	1	1
	(c)	Forces, energy and power	K3	3	1
3		Collisions, explosions and impulse	K2	3	2
4	(a)(i)	The Standard Model	K3	2	1
	(a)(ii)	Gravitation	K3	3	
	(b)(i)	Collisions, explosions and impulse	K3	3	
	(b)(ii)	Collisions, explosions and impulse	S3	1	
5	(a)	Wave particle duality	K3	3	
	(b)	The expanding Universe	K2	2	2
	(c)(i)	The expanding Universe	K2	2	2
	(c)(ii)	The expanding Universe	K1	1	
6	(a)(i)	Forces on charged particles	S3	1	1
	(a)(ii)	Forces on charged particles	K3	3	
	(a)(iii)	Motion - equations and graphs	K3	3	
	(b)	Forces on charged particles	S5	1	1
7		The Standard Model	K2	3	2
8	(a)	Inverse square law	S4	3	1
	(b)	Inverse square law	S1	1	
	(c)(i)	Uncertainties	S4	1	
	(c)(ii)	Uncertainties	K3	2	
	(c)(iii)	Unspecified - skills	S4	2	

9	(a)(i)	Wave particle duality	K3	3	
	(a)(ii)	Wave particle duality	K2	2	1
	(b)	Wave particle duality	K2	2	2
	(c)	Wave particle duality	S5	1	1
			S6	1	1
10	(a)	Interference	K3	3	
	(b)	Interference	K3	4	
	(c)	Interference	K2	2	1
11	(a)(i)	Spectra	S4	1	
	(a)(ii)	Spectra	S6	1	
	(b)(i)	Spectra	K3	4	4
	(b)(ii)	Spectra	S6	1	
	(c)	Spectra	K2	2	2
12	(a)	Refraction of light	S1	2	2
	(b)	Refraction of light	K3	3	
	(c)	Refraction of light	S5	2	1
13	(a)	Monitoring and measuring AC	K1	1	
	(b)	Monitoring and measuring AC	K3	3	
	(c)	Monitoring and measuring AC	K3	2	
			S4	1	1
14	(a)(i)	Electrical sources and internal resistance	S2	1	
	(a)(ii)	Electrical sources and internal resistance	S4	2	
	(a)(iii)	Electrical sources and internal resistance	S4	2	
	(b)	Electrical sources and internal resistance	S6	2	2
15	(a)	Current, potential difference, power and resistance	K3	3	
	(b)(i)	Semiconductors and p-n junctions	K1	1	
	(b)(ii)	Semiconductors and p-n junctions	K2	3	2
16	(a)(i)	Unspecified - skills	S3	3	
	(a)(ii)	Unspecified - skills	S4	2	2
	(a)(iii)	Unspecified - skills	S7	1	
	(b)	Unspecified - skills	S4	2	

2025 Higher Physics Question Paper					
Question	**Part**	**Course Content**	**Skills assessed**	**Maximum mark**	**A-type Marks**
Paper 1					
1		Motion - equations and graphs	K3	1	
2		Motion - equations and graphs	S6	1	
3		Forces, energy and power	K3	1	
4		Forces, energy and power	K3	1	1
5		Forces, energy and power	K3	1	
6		Collisions, explosions and impulse	K3	1	1
7		Collisions, explosions and impulse	S6	1	1
8		Special relativity	K3	1	
9		The expanding Universe	K1	1	
10		Forces on charged particles	K3	1	
11		Forces on charged particles	S5	1	
12		Nuclear reactions	S4	1	
13		Inverse square law	K3	1	
14		Wave particle duality	S1	1	1
15		Wave particle duality	K3	1	
16		Interference	S4	1	1
17		Refraction of light	K3	1	1
18		Refraction of light	K1	1	
19		Current, potential difference, power and resistance	K3	1	
20		Current, potential difference, power and resistance	S6	1	1
21		Electrical sources and internal resistance	K3	1	
22		Electrical sources and internal resistance	K3	1	1
23		Semiconductors and p-n junctions	S6	1	
24		Uncertainties	S4	1	
25		Unspecified - skills	S4	1	
Paper 2					
1	(a)(i)	Motion - equations and graphs	K1	1	
	(a)(ii)	Motion - equations and graphs	K3	3	
	(b)	Forces, energy and power	K3	1	
			S4	3	3
2	(a)	Collisions, explosions and impulse	K1	1	
	(b)	Collisions, explosions and impulse	K3	3	
	(c)	Collisions, explosions and impulse	K3	3	
			S6	1	1
	(d)(i)	The expanding Universe	K3	3	
	(d)(ii)	The expanding Universe	K2	1	
	(d)(iii)	The expanding Universe	S7	1	1
3		Gravitation	K2	3	2
4	(a)	Special relativity	K1	1	
	(b)	Special relativity	K3	3	
	(c)	Special relativity	K2	2	
5	(a)	The Standard Model	K3	2	
	(b)(i)	The expanding Universe	S3	2	1
	(b)(ii)	The expanding Universe	K2	1	
	(c)(i)	Gravitation	K3	3	
	(c)(ii)	Gravitation	K2	3	2
	(c)(ii)	Gravitation	S5	2	1
6	(a)(i)	Nuclear reactions	K2	1	
	(a)(ii)	Nuclear reactions	K3	3	
			S4	1	
	(b)(i)	Nuclear reactions	S2	1	
	(b)(ii)	The Standard Model	S6	1	
	(c)(i)	The Standard Model	K2	1	
	(c)(ii)	The Standard Model	K1	1	
	(c)(ii)	The Standard Model	S4	2	
7	(a)	Inverse square law	K1	1	
	(b)	Inverse square law	K3	2	
			S6	1	1
	(c)	Inverse square law	S7	2	1
	(d)(i)	Inverse square law	K3	3	2
			S4	1	1
	(d)(ii)	Inverse square law	S6	1	
	(a)	Wave particle duality	K2	1	1

8	(b)(i)	Wave particle duality	K1	1	
	(b)(ii)	Wave particle duality	K3	3	
	(b)(iii)	Wave particle duality	K2	2	2
9	(a)	Interference	K2	2	2
	(b)	Interference	K3	3	
	(c)	Interference	S6	2	2
	(d)	Interference	K2	2	2
10	(a)	Spectra	K2	2	
	(b)(i)	Spectra	S2	1	
	(b)(ii)	Spectra	K3	3	
	(b)(iii)(A)	Spectra	K3	3	
	(b)(iii)(B)	Spectra	S6	1	
	(c)(i)	The expanding Universe	K3	5	
	(c)(ii)	The expanding Universe	S3	1	
	(d)	The expanding Universe	K1	1	
11	(a)	Current, potential difference, power and resistance	K3	3	
			S4	1	
	(b)	Monitoring and measuring AC	K3	3	
	(c)	Monitoring and measuring AC	K2	3	3
12	(a)	Capacitors	K3	1	
			S3	2	1
	(b)(i)	Capacitors	K2	2	1
	(b)(ii)	Capacitors	K3	3	
	(b)(iii)	Capacitors	K3	3	
13		Semiconductors and p-n junctions	K2	3	2
14	(a)(i)	Unspecified - skills	S3	3	
	(a)(ii)	Unspecified - skills	S4	2	
	(a)(iii)	Unspecified - skills	S4	2	2
	(b)	Uncertainties	S6	1	