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/investigations to test given hypotheses or to illustrate given 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	Applying knowledge of physics to new situations, interpreting information, and solving problems

	2016 Advanced Higher Physics Question Paper						
Question	Part	Course Content	Skills assessed	Maximum mark	A-type Marks		
1	(a)	Kinematic relationships	K3	3			
I	(b)	Kinematic relationships	K3	3			
	(a)(i)	Angular motion	K2	1			
	(a)(ii)	Angular motion	K1	1			
2	(b)(i)(A)	Angular motion	K3	2			
	(b)(i)(B)	Angular motion	К3	3			
	(b)(i)(C)	Angular motion	S4	3	2		
	(b)(ii)	Angular motion	S5	1			
	(2)	Cravitation	K3	3			
٠, ١	(a)	Gravitation	S6	1			
3	(b)(i)	Gravitation	K3	3	3		
	(b)(ii)	Gravitation	K2	3	3		
	(a)	Stellar physics	К3	3			
4	(b)	Stellar physics	К3	3			
	(c)	Stellar physics	K1	1			
	(a)(i)	General relativity	K1	1			
	(a)(ii)	General relativity	K1	1			
5	(b)(i)	General relativity	S5	1			
	(b)(ii)	General relativity	S5	1			
	(c)	General relativity	S6	2			
6	(0)	Introduction to quantum theory	K2	3	2		
	(a)(i)	Introduction to quantum theory	S4	3	_		
	(a)(ii)	Introduction to quantum theory	S2	1			
7	(b)(i)	Introduction to quantum theory	S6	2	2		
	(b)(ii)	Introduction to quantum theory	S3	1	1		
	(a)(i)	Introduction to quantum theory	K1	1	•		
	(a)(ii)	Introduction to quantum theory	K2	1	1		
			K3	3	'		
8	(b)(i)	Introduction to quantum theory	S2	1			
	(b)(ii)	Introduction to quantum theory	K3	3			
	(b)(iii)	Introduction to quantum theory	K2	3	2		
	(a)	Particles from space	K3	2			
	(b)(i)	Particles from space	K3	4	2		
9	(b)(ii)	Particles from space	K3	2			
	(b)(iii)	Particles from space	\$6	2	2		
	(a)(i)	Simple harmonic motion	K1	1			
	(a)(ii)	Simple harmonic motion	S4	2	1		
	(b)(i)	Simple harmonic motion	K3	3	'		
10	(b)(ii)	Simple harmonic motion	K3	3			
'0	(b)(iii)	Simple harmonic motion	K3	3			
		Simple harmonic motion	\$1	1	1		
	(c)(i)	·	S3	1	ı		
	(c)(ii)	Simple harmonic motion	<u> </u>	ı			

2016 Advanced Higher Physics Question Paper								
Question	Part	Course Content	Skills assessed	Maximum mark	A-type Marks			
	(a)	Waves	K3	4	1			
11	(b)	Waves	K3	3	2			
	(0)	waves	S6	1	1			
	(a)	Polarisation	K2	1				
12	(b)	Polarisation	K2	2	1			
12	(c)	Polarisation	K2	2	1			
	(d)	Polarisation	S6	1	1			
	(a)	Fields	K3	2				
	(b)(i)	Fields	K3	3	2			
13	(b)(ii)	Fields	K3	3				
			S4	1	1			
	(b)(iii)	Fields	<b>S</b> 3	2	1			
	(a)	Fields	K3	3				
	(b)(i)	Uncertainties	K3	1				
14	(b)(ii)	Uncertainties	K3	3				
	(b)(iii)	Uncertainties	<b>S4</b>	2				
	(c)	Fields	S7	1	1			
	(a)(i)	Circuits	<b>S4</b>	3	2			
15	(a)(ii)	Electromagnetic radiation	K3	3				
	(b)	Uncertainties	S7	1	1			
	(a)	Rotational dynamics	K3	3				
16	(b)(i)	Rotational dynamics	<b>S</b> 3	3	1			
16	(b)(ii)	Rotational dynamics	S4	3	2			
	(c)	Rotational dynamics	K2	3	2			

- 1. This question paper was set pre-2020, and so
- i) the total number of extended-response marks is 140 rather than 155
- ii) the targets for percentages of marks assigned to each skill area differ from those in post-2019 question papers
- iii) the approach to marking changed for some question types following the publication of updated Physics:general marking principles in 2017.
- 2. The project was part of the course assessment in this year, and the target of 30% A-type marks was taken over both project and question paper components of the course assessment, rather than the question paper alone.

Course   Content   Course   Content   Course   Content   Content   Course   Content   Course   Cours	2017 Advanced Higher Physics Question Paper							
(a)(i)   Angular motion   S3   1   (a)(ii)   Angular motion   S3   1   (a)(iii)   Angular motion   S3   1   (a)(iii)(A)   Angular motion   S4   2   1   (a)(iii)(B)   Angular motion   S4   2   1   (a)(iii)(B)   Angular motion   S4   1   1   (a)(iii)(B)   Angular motion   S4   1   1   (a)(iii)(B)   Angular motion   S4   2   2   2   (c)   Simple harmonic motion   S3   3   3   (a)   Rotational dynamics   K3   3   (b)(i)   Rotational dynamics   K3   3   (b)(ii)   Rotational dynamics   K3   3   (b)(iii)   Angular motion   K3   5   1   (c)   Rotational dynamics   K3   3   (c)   Rotational dynamics   K3   3   (d)(ii)   Gravitation   K3   5   2   (a)(ii)   Gravitation   K3   2   (a)(ii)   Gravitation   K3   3   (b)(ii)   Gravitation   K3   3   (b)(ii)   Gravitation   K4   1   1   (b)(ii)   Gravitation   K4   2   3   2   (a)   Stellar physics   K1   2   (b)(ii)   Stellar physics   K1   2   (b)(ii)   Stellar physics   S6   1   1   (b)(iii)   Stellar physics   S4   1   1   (b)(iii)   Stellar physics   S4   2   1   (b)(iii)   Introduction to quantum theory   K3   3   (a)   Introduction to quantum theory   K3   3   (a)   (b)(iii)   Simple harmonic motion   K2   1   (b)(ii)   Simple harmonic motion   S4   2   2   (a)(ii)   Waves   K3   3   (a)   (c)(ii)   Waves   K3   3   (a)   (c)(iii)   Waves   K3   3   (a)   (c)(iii)   Waves   K3   3   (a)   (c)(iii)   Waves   S4   1   (a)   (c)(iii)   Waves   S4   1   (a)   (c)(iii)   Uncertainties   K3   5   (c)(iii	Question	Part						
(b) Kinematic relationships (R3 3 3 1)  (a)(ii) Angular motion (S3 1 1)  (a)(iii) Angular motion (S3 1 1)  (a)(iiii) Angular motion (S4 2 1 1)  (b) Angular motion (S4 1 1 1 1)  (b) Angular motion (S4 1 1 1 1)  (b) Angular motion (S4 2 2 2 2)  (c) Simple harmonic motion (S3 3 3 1 1)  (a) Rotational dynamics (R3 3 3 1)  (b)(ii) Rotational dynamics (R3 3 3 1)  (b)(iii) Rotational dynamics (R3 3 3 1)  (b)(iii) Rotational dynamics (R3 3 3 1)  (c) Rotational dynamics (R3 3 3 1)  (d)(iii) Gravitation (R3 5 1 1)  (c) Rotational dynamics (R3 3 3 2)  (a)(i) Gravitation (R3 2 2 1)  (a)(ii) Gravitation (R3 3 3 3 1)  (b)(ii) Gravitation (R3 3 3 3 1)  (b)(ii) Gravitation (R3 3 3 3 1)  (b)(iii) Gravitation (R1 3 3 3 3 1)  (b)(iii) Gravitation (R1 3 3 3 2 1)  (b)(iii) Gravitation (R1 3 3 3 2 1)  (c) Gravitation (R1 3 3 3 2 1)  (d)(ii) Gravitation (R1 3 3 3 2 1)  (e) (b)(ii) Stellar physics (R1 2 2 1)  (b)(iii) Stellar physics (R1 2 2 1)  (b)(iii) Stellar physics (R1 1 1 1)  (c) Stellar physics (R1 1 1 1)  (d)(iii) Gravitation to quantum theory (R3 3 3 1)  (b)(ii) Introduction to quantum theory (R3 3 3 1)  (b)(ii) Simple harmonic motion (R2 1 1)  (b)(iii) Simple harmonic motion (R2 1 1)  (c) Simple harmonic motion (R3 4 2 2)  (d) (d)(iii) Waves (R3 4 3 3)  (d) (d)(iii) Waves (R3 4 1 3)  (a) Interference (R2 2 1 1)  (b) Waves (R3 3 3 1)  (c) C) Interference (R2 2 1 1)  (d) (d)(ii) Uncertainties (R3 5 5)	1	(a)	Kinematic relationships	K3	2			
(a)(iii)         Angular motion         \$3         1           (a)(iii)(A)         Angular motion         \$4         2         1           (a)(iii)(B)         Angular motion         \$4         1         1           (b)         Angular motion         K2         2         2           (c)         Simple harmonic motion         \$3         3         1           (a)         Rotational dynamics         K3         3         3           (b)(ii)         Rotational dynamics         K3         3         3           (b)(iii)         Angular motion         K3         5         1           (c)         Rotational dynamics         K3         3         5         1           (c)         Rotational dynamics         K3         5         2         2           (a) (b)(iii)         Angular motion         K3         5         2         1         3         4         (b)(iii)         Gravitation         K3         5         2         2         2         4         (b)(ii)         Gravitation         K1         1         1         4         (b)(iii)         Gravitation         K2         3         2         3         2         4 <t< td=""><td>I</td><td>(b)</td><td>Kinematic relationships</td><td>K3</td><td>3</td><td></td></t<>	I	(b)	Kinematic relationships	K3	3			
2         (a)(iii)(A)         Angular motion         \$4         2         1           (a)(iii)(B)         Angular motion         \$4         1         1           (b)         Angular motion         \$2         2         2           (c)         Simple harmonic motion         \$3         3         1           (a)         Rotational dynamics         K3         3         (b)(ii)         Rotational dynamics         K3         3           (b)(iii)         Angular motion         K3         5         1		(a)(i)	Angular motion	<b>S</b> 3	1			
(a) (iii) (B) Angular motion		(a)(ii)	Angular motion	<b>S</b> 3				
(a)(iii)(B)         Angular motion         K2         2         2           (b)         Angular motion         K2         2         2           (c)         Simple harmonic motion         S3         3         1           (a)         Rotational dynamics         K3         3           (b)(ii)         Rotational dynamics         K3         3           (b)(iii)         Angular motion         K3         5         1           (c)         Rotational dynamics         K3         5         1           (a)(ii)         Gravitation         K3         5         2           (a)(ii)         Gravitation         K3         2         2           (a)(iii)         Gravitation         K1         1         1           (b)(ii)         Gravitation         K2         3         2           (a)         Stellar physics         K1         2         2           (b)(ii)         Stellar physics         K1         2         2           (b)(iii)         Stellar physics         K1         1         1           (c)         Stellar physics         K3         3         3           (b)(iii)         Introduction to quantum the	2	(a)(iii)(A)	Angular motion	S4	2	1		
(c) Simple harmonic motion	_	(a)(iii)(B)	Angular motion	S4	1	1		
(a) Rotational dynamics		(b)	Angular motion	K2	2	2		
(b)(i) Rotational dynamics		(c)	Simple harmonic motion	<b>S</b> 3	3	1		
(b)(ii)   Rotational dynamics   K3   3   (b)(iii)   Angular motion   K3   5   1   (c)   Rotational dynamics   K3   5   2   (a)(i)   Gravitation   K3   3   2   (a)(ii)   Gravitation   K3   3   3   (b)(ii)   Gravitation   K1   1   1   (b)(ii)   Gravitation   K1   1   1   (b)(iii)   Gravitation   K2   3   2   3   2   (a)   Stellar physics   K1   2   (b)(ii)   Stellar physics   K1   2   (b)(ii)   Stellar physics   K1   1   1   (b)(iii)   Stellar physics   K1   1   1   (b)(iii)   Stellar physics   K1   1   1   (c)   (d)(iii)   Stellar physics   S4   1   1   1   (d)(iii)   Stellar physics   S4   1   1   (d)(iii)   Stellar physics   S4   1   1   (d)(iii)   Stellar physics   S4   2   1   (d)(iii)   Introduction to quantum theory   K3   3   (a)   Introduction to quantum theory   K3   3   (b)(ii)   Introduction to quantum theory   K3   3   (a)   Simple harmonic motion   K2   1   (b)(ii)   Simple harmonic motion   K2   1   (b)(ii)   Simple harmonic motion   S4   2   2   (c)   Simple harmonic motion   S4   2   2   (c)   (d)(ii)   Waves   K3   3   (a)(iii)   Waves   K4   3   (a)(iii)   Wa		(a)	Rotational dynamics	K3	3			
(b)(iii) Angular motion (C) Rotational dynamics (C) Rotation (C) (C) (C) Rotational dynamics (C) Rotation (C) (C) (ii) Waves (C) (C) (ii) Waves (C) (C) (ii) Mayes (C) (C) (ii) Mayes (C) (C) (ii) Mayes (C) (C) (ii) Mayes (C) (C) (ii) Interference (K2 2 1 1 (C) (ii) Mayes (C) (C) (ii) Interference (K2 2 1 1 (C) (ii) Mayes (C) (C) (ii) Interference (K2 2 1 (C) (ii) Interference (K2 2 1 (C) (C) (ii) Interference (K2 2 1 (C) (C) (ii) Interference (K2 2 1 (C) (ii) Interference (K2 2 1 (C) (ii) Interference (K2 2 1 (C) (C) (ii) Interference (K3 3 3 (C)		(b)(i)	Rotational dynamics	K3	3			
(c) Rotational dynamics	3	(b)(ii)	Rotational dynamics	K3				
(a)(ii) Gravitation (3) 3 3 (b)(iii) Gravitation (5)(iii) Gravitation (7) (b)(iii) Gravitation (7) (b)(iii) Gravitation (7) (c)(iii) Gravitation (7) (d)(iii) Gravitation (7) (d) Gravitat		(b)(iii)	Angular motion	K3	5	1		
(a)(ii)         Gravitation         K3         3           (b)(i)         Gravitation         K1         1           (b)(iii)         Gravitation         K3         3         2           5         Gravitation         K2         3         2           (a)         Stellar physics         K1         2         (b)(ii)         Stellar physics         S6         1         1           (b)(ii)         Stellar physics         K1         1<		(c)	Rotational dynamics	K3	5	2		
A   (b)(i)   Gravitation   K1   1   1   1   1   1   1   1   1		(a)(i)	Gravitation	K3	2			
(b)(ii)   Gravitation   S4		(a)(ii)	Gravitation	K3	3			
B)(ii)   Gravitation   K3   3   2   2   3   2   3   2   3   2   3   2   3   2   3   2   3   3	4	(b)(i)	Gravitation	K1	1			
Color   Colo			Gravitation	S4	1	1		
(a)       Stellar physics       K1       2         (b)(i)       Stellar physics       S6       1       1         (b)(iii)       Stellar physics       K1       1         (c)       Stellar physics       S4       2       1         (a)       Introduction to quantum theory       S6       2       1         (b)(i)       Introduction to quantum theory       K3       3         (b)(ii)       Introduction to quantum theory       K3       3         (a)       Simple harmonic motion       K2       1         (b)(ii)       Simple harmonic motion       K2       1         (b)(ii)       Simple harmonic motion       S4       2         (c)       Simple harmonic motion       S4       2       2         (a)(ii)       Waves       K3       1         (a)(iii)       Waves       K3       3         (b)       Waves       K3       3         (b)       Waves       K4       3         (c)(ii)       Waves       K4       1         (a)       Interference       K2       2       1         (b)       Interference       K2       2       1 <tr< td=""><td></td><td>(0)(11)</td><td>Gravitation</td><td>K3</td><td>3</td><td>2</td></tr<>		(0)(11)	Gravitation	K3	3	2		
(b)(i)       Stellar physics       S6       1       1         (b)(ii)       Stellar physics       K1       1         (b)(iii)       Stellar physics       S4       1       1         (c)       Stellar physics       S4       2       1         (a)       Introduction to quantum theory       S6       2       1         (b)(i)       Introduction to quantum theory       K3       3         (a)       Simple harmonic motion       K2       1         (a)       Simple harmonic motion       K2       1         (b)(ii)       Simple harmonic motion       S4       2         (b)(iii)       Simple harmonic motion       S4       2       2         (c)       Simple harmonic motion       S4       2       2         (a)(ii)       Waves       K3       1       3         (a)(iii)       Waves       K3       3       1         (b)       Waves       K3       3       1         (c)(ii)       Waves       K4       3       1         (c)(iii)       Waves       K4       3       1         (b)       Interference       K2       2       1	5		Gravitation	K2	3	2		
6       (b)(ii)       Stellar physics       K1       1         (b)(iii)       Stellar physics       S4       1       1         (c)       Stellar physics       S4       2       1         (a)       Introduction to quantum theory       S6       2       1         (b)(i)       Introduction to quantum theory       K3       3         (b)(ii)       Introduction to quantum theory       K3       3         (a)       Simple harmonic motion       K2       1         (b)(ii)       Simple harmonic motion       S4       2         (b)(iii)       Simple harmonic motion       S4       2       2         (c)       Simple harmonic motion       S4       2       2         (a)(ii)       Waves       K3       1         (a)(ii)       Waves       K3       1         (a)(iii)       Waves       K3       3         (b)       Waves       K4       1         (c)(ii)       Waves       K4       1         (c)(iii)       Waves       K4       1         (c)(iii)       Uncertainties       K3       3		(a)	Stellar physics	K1	2			
(b)(iii)   Stellar physics   S4		(b)(i)	Stellar physics	S6	1	1		
(b)(iii)   Stellar physics   S4	_	(b)(ii)	Stellar physics	K1	1			
(c) Stellar physics	0	(b)(iii)		S4	1	1		
(a)       Introduction to quantum theory       \$6       2       1         (b)(i)       Introduction to quantum theory       K3       3         (b)(ii)       Introduction to quantum theory       K3       3         (a)       Simple harmonic motion       K2       1         (b)(ii)       Simple harmonic motion       \$4       2         (b)(iii)       Simple harmonic motion       \$4       2       2         (c)       Simple harmonic motion       \$6       2       2         (a)(ii)       Waves       K3       1         (a)(ii)       Waves       K3       4       3         (a)(iii)       Waves       K3       3         (b)       Waves       K4       3       1         (c)(i)       Waves       K4       1       1         (c)(ii)       Waves       K4       1       1         (c)(ii)       Waves       K4       1       1         (a)       Interference       K2       2       1         (b)       Interference       K3       3         (b)       Interference       K3       3         (c)(ii)       Uncertainties       K3		(D)(111)		K3	3			
Table   Tabl		(c)	Stellar physics	S4	2	1		
(b)(ii) Introduction to quantum theory K3 3  (a) Simple harmonic motion K2 1  (b)(i) Simple harmonic motion S4 2  (b)(ii) Simple harmonic motion S4 3  (b)(iii) Simple harmonic motion S4 2 2  (c) Simple harmonic motion S6 2 2  (a)(i) Waves K3 1  (a)(ii) Waves K3 4 3  (a)(iii) Waves K3 3 1  (b) Waves K3 3 1  (c)(i) Waves K3 3 1  (a) (iii) Waves K3 3 1  (b) Waves K3 4 3 1  (c)(ii) Waves K3 3 1  (c)(ii) Waves K4 3 1  (a) Interference K2 1 1 1  (b) Interference K2 2 1  (c)(ii) Interference K3 3 3  (c)(iii) Uncertainties K3 5		(a)	Introduction to quantum theory	S6	2	1		
(b)(ii)       Introduction to quantum theory       K3       3         (a)       Simple harmonic motion       K2       1         (b)(i)       Simple harmonic motion       S4       2         (b)(ii)       Simple harmonic motion       S4       2       2         (c)       Simple harmonic motion       S6       2       2         (a)(i)       Waves       K3       1         (a)(ii)       Waves       K3       4       3         (a)(iii)       Waves       K3       3         (b)       Waves       K4       3       1         (c)(i)       Waves       K2       1       1         (c)(iii)       Waves       K4       1       1         (a)       Interference       K2       2       1         (b)       Interference       K2       2       1         (c)(ii)       Interference       K3       3         (c)(iii)       Uncertainties       K3       5	7	(b)(i)	Introduction to quantum theory	K3	3			
(a)       Simple harmonic motion       K2       1         (b)(i)       Simple harmonic motion       S4       2         (b)(ii)       Simple harmonic motion       S4       3         (b)(iii)       Simple harmonic motion       S6       2       2         (a)(i)       Waves       K3       1         (a)(ii)       Waves       K3       4       3         (a)(iii)       Waves       K3       3       1         (b)       Waves       K4       1       1         (c)(i)       Waves       K4       1       1         (c)(ii)       Waves       K4       1       1         (a)       Interference       K2       2       1         (b)       Interference       K2       2       1         (c)(ii)       Interference       K3       3         (c)(iii)       Uncertainties       K3       5			Introduction to quantum theory	K3	3			
8       (b)(ii)       Simple harmonic motion       S4       3         (b)(iii)       Simple harmonic motion       S4       2       2         (c)       Simple harmonic motion       S6       2       2         (a)(i)       Waves       K3       1         (a)(ii)       Waves       K3       4       3         (a)(iii)       Waves       K3       3       1         (c)(i)       Waves       K2       1       1         (c)(ii)       Waves       S4       1       1         (a)       Interference       K2       2       1         (b)       Interference       K2       2       1         (b)       Interference       K3       3         (c)(ii)       Interference       K3       3         (c)(iii)       Uncertainties       K3       5			Simple harmonic motion	K2	1			
(b)(iii)       Simple harmonic motion       \$4       2       2         (c)       Simple harmonic motion       \$6       2       2         (a)(i)       Waves       K3       1         (a)(ii)       Waves       K3       4       3         (a)(iii)       Waves       K3       3       1         (c)(i)       Waves       K2       1       1         (c)(ii)       Waves       S4       1       1         (a)       Interference       K2       2       1         (b)       Interference       K2       2       1         (b)       Interference       K3       3         (c)(ii)       Uncertainties       K3       5		(b)(i)	Simple harmonic motion	S4				
(c)       Simple harmonic motion       S6       2       2         (a)(i)       Waves       K3       1         (a)(ii)       Waves       K3       4       3         (a)(iii)       Waves       K3       3       1         (c)(i)       Waves       K2       1       1         (c)(ii)       Waves       S4       1       1         (a)       Interference       K2       2       1         (b)       Interference       K2       2       1         (b)       Interference       K3       3         (c)(ii)       Uncertainties       K3       5	8	(b)(ii)	Simple harmonic motion	S4	3			
(a)(i)       Waves       K3       1         (a)(ii)       Waves       K3       4       3         (a)(iii)       Waves       K3       3         (b)       Waves       K2       1       1         (c)(i)       Waves       K2       1       1         (a)       Interference       K2       2       1         (b)       Interference       K2       2       1         (c)(i)       Interference       K3       3         (c)(ii)       Uncertainties       K3       5		(b)(iii)	Simple harmonic motion	S4	2	2		
(a)(ii)       Waves       K3       4       3         (a)(iii)       Waves       K3       3         (b)       Waves       S4       3       1         (c)(i)       Waves       K2       1       1         (c)(ii)       Waves       S4       1         (a)       Interference       K2       2       1         (b)       Interference       K2       2       1         (c)(i)       Interference       K3       3         (c)(ii)       Uncertainties       K3       5		(c)	Simple harmonic motion	S6	2	2		
9 (a)(iii) Waves K3 3 1 (b) Waves S4 3 1 (c)(i) Waves K2 1 1 1 (c)(ii) Waves S4 1 (a) Interference K2 2 1 (b) Interference K2 2 1 (c)(ii) Interference K3 3 (c)(ii) Uncertainties K3 5		(a)(i)	Waves	K3	1			
(b)       Waves       S4       3       1         (c)(i)       Waves       K2       1       1         (c)(ii)       Waves       S4       1         (a)       Interference       K2       2       1         (b)       Interference       K2       2       1         (c)(i)       Interference       K3       3         (c)(ii)       Uncertainties       K3       5		(a)(ii)	Waves	K3	4	3		
(b)       Waves       S4       3       1         (c)(i)       Waves       K2       1       1         (c)(ii)       Waves       S4       1         (a)       Interference       K2       2       1         (b)       Interference       K2       2       1         (c)(i)       Interference       K3       3         (c)(ii)       Uncertainties       K3       5		(a)(iii)	Waves	K3				
(c)(ii)       Waves       54       1         (a)       Interference       K2       2       1         (b)       Interference       K2       2       1         (c)(i)       Interference       K3       3         (c)(ii)       Uncertainties       K3       5	9	(b)	Waves	S4	3	1		
(a)       Interference       K2       2       1         (b)       Interference       K2       2       1         10       (c)(i)       Interference       K3       3         (c)(ii)       Uncertainties       K3       5		(c)(i)	Waves	K2	1	1		
(a)       Interference       K2       2       1         (b)       Interference       K2       2       1         10       (c)(i)       Interference       K3       3         (c)(ii)       Uncertainties       K3       5		(c)(ii)	Waves	S4	1			
10       (c)(i)       Interference       K3       3         (c)(ii)       Uncertainties       K3       5			Interference	K2	2	1		
10       (c)(i)       Interference       K3       3         (c)(ii)       Uncertainties       K3       5				K2	2	1		
(c)(ii) Uncertainties K3 5	10							
				S7		1		

	2017 Advanced Higher Physics Question Paper							
Question	Part	Course Content	Skills assessed	Maximum mark	A-type Marks			
	(a)	Fields	K1	1				
	(b)(i)	Fields	K3	3	1			
11	(b)(ii)	Fields	K3	3				
11	(b)(iii)	Fields	S6	1				
	(b)(iv)	Fields	S4	1	1			
	(0)(17)	l letus	K3	3	2			
	(a)	Particles from space	S6	1				
12	(b)	Particles from space	K3	3				
12	(c)	Particles from space	K2	2	2			
	(d)	Particles from space	K2	2	2			
	(a)	Circuits	K3	2				
	(b)(i)	Circuits	<b>S</b> 1	1				
13	(b)(ii)(A)	Circuits	S2	1				
13	(b)(ii)(A)	Circuits	S4	1				
	(b)(ii)(B)	Circuits	S6	1				
	(c )	Circuits	K2	3	2			
	(a)(i)	Circuits	K2	1	1			
	(a)(ii)	Circuits	K2	1	1			
14	(b)	Circuits	K3	3				
14	(c)(i)	Circuits	S2	1				
	(c)(i)	Circuits	K3	3				
	(c)(ii)	Circuits	K2	1	1			

- 1. This question paper was set pre-2020, and so
- i) the total number of extended-response marks is 140 rather than 155
- ii) the targets for percentages of marks assigned to each skill area differ from those in post-2019 question papers
- iii) the approach to marking changed for some question types following the publication of updated Physics:general marking principles in 2017.
- 2. The project was part of the course assessment in this year, and the target of 30% A-type marks was taken over both project and question paper components of the course assessment, rather than the question paper alone.

	2018 Advanced Higher Physics Question Paper							
Question	Part	Course Content	Skills assessed	Maximum mark	A-type Marks			
4	(a)	Kinematic relationships	К3	3				
1	(b)	Kinematic relationships	К3	3				
	(a)(i)	Angular motion	K2	1				
	(a)(ii)	Angular motion	К3	3				
2	(a)(iii)	Angular motion	К3	3				
	(b)(i)	Angular motion	К3	2				
	(b)(ii)	Angular motion	S4	2				
	(b)(iii)	Angular motion	K2	2	1			
	(a)	Rotational dynamics	К3	2				
,	(b)	Rotational dynamics	К3	3				
3	(c)(i)	Rotational dynamics	К3	4				
	(c)(ii)	Rotational dynamics	К3	3				
	(a)(i)	Gravitation	К3	3				
4	(a)(ii)	Gravitation	S4	3	3			
	(b)	Gravitation	К3	3				
	(a)	General relativity	K2	1	1			
_	(b)(i)	General relativity	К3	3				
5	(b)(ii)	General relativity	K2	1				
	(c)	General relativity	S4	3	2			
6	,	Stellar physics	K2	3	2			
	(a)(i)	Introduction to quantum theory	S6	1				
	(a)(ii)	Introduction to quantum theory	К3	3				
7	(a)(iii)	Introduction to quantum theory	K2	1	1			
	(a)(iv)	Introduction to quantum theory	К3	4	3			
	(b)	Introduction to quantum theory	S6	2	2			
	(a)(i)	Stellar physics	K1	1				
	(a)(ii)	Stellar physics	S2	2	1			
	(b)	Particles from space	K1	1				
8	(c)(i)	Particles from space	S4	2	2			
	(c)(ii)(A)	Particles from space	S6	1	1			
	(c )(ii)(B)	Particles from space	S6	1	1			
	(d)	Particles from space	K2	2	2			
	(a)(i)	Simple harmonic motion	К3	2				
	(a)(ii)	Simple harmonic motion	К3	3	2			
9	(a)(iii)	Simple harmonic motion	К3	3				
	(a)(iv)	Simple harmonic motion	S4	3				
	(b)	Simple harmonic motion	<b>S</b> 3	2	2			
	(a)(i)	Waves	К3	3				
10	(a)(ii)	Waves	S6	1	1			
	(b)(i)	Waves	К3	2				
	(b)(ii)	Electromagnetic radiation	S4	2				
	(a)	Interference	K1	1				
4.4	(b)	Interference	К3	4				
11	(c)	Uncertainties	S7	1	1			
	(d)	Interference	S6	2	2			

	2018 Advanced Higher Physics Question Paper						
Question	Part	Course Content	Skills assessed	Maximum mark	A-type Marks		
	(a)(i)	Polarisation	K2	2			
12	(a)(ii)	Polarisation	S5	1			
12	(b) (i)	Polarisation	K3	3			
	(b)(ii)	Polarisation	S6	1	1		
	(a)	Fields	K1	1			
	(b)(i)	Fields	S4	2	2		
13	(b)(ii)	Fields	K3	3			
	(b)(iii)	Fields	K3 S4	3 2	2		
	(a)	Circuits	S4	1	Z		
	(b)(i)	Circuits	S4	2			
14	(b)(ii)	Uncertainties	K3	4	3		
	(c)	Data Analysis	S2	1	1		
	(d)	Uncertainties	K2	3	2		
	(a)	Circuits	K3	3			
15	(b)	Circuits	K3	2			
	(c)(i)	Circuits	K3	3			
	(c)(ii)	Circuits	S6	2	2		

- 1. This question paper was set pre-2020, and so
- i) the total number of extended-response marks is 140 rather than 155
- ii) the targets for percentages of marks assigned to each skill area differ from those in post-2019 question papers
- iii) the approach to marking changed for some question types following the publication of updated Physics: general marking principles in 2017.
- 2. The project was part of the course assessment in this year, and the target of 30% A-type marks was taken over both project and question paper components of the course assessment, rather than the question paper alone.

2019 Advanced Higher Physics Question Paper						
Question	Part	Course Content	Skills assessed	Maximum mark	A-type Marks	
1	(a)	Kinematic relationships	K3	3		
•	(b)	Kinematic relationships	K3	3		
	(a)(i)	Angular motion	K3	3		
2	(a)(ii)	Angular motion	K2	1	1	
2	(b)(i)	Angular motion	<b>S</b> 3	2		
	(b)(ii)	Angular motion	K2	2	2	
	(a)	Rotational dynamics	K3	2		
3	(b)(i)	Rotational dynamics	K2	1	1	
	(b)(ii)	Rotational dynamics	K3	3		
4		Angular motion/Rotational dynamics	K2	3	2	
	(a)	Gravitation	K1	1		
5	(b)	Gravitation	K3	3		
	(c )	Gravitation	K3	4	2	
	(a)	General relativity	K1	1		
	(b)(i)	General relativity	K1	1		
6	(b)(ii)	General relativity	S3	1		
0	(c )(i)	General relativity	S4	2		
	(c)(ii)(A)	General relativity	S4	2		
	(c)(ii)(B)	General relativity	S3	2	2	
	(a)(i)	Stellar physics	S5	1		
	(a)(ii)(A)	Stellar physics	K1	1		
7	(a)(ii)(B)	Stellar physics	K2	1	1	
,	(b)(i)	Stellar physics	К3	3		
	(b)(ii)	Stellar physics	K3	3		
	(c)	Stellar physics	K1	1		
	(a)	Introduction to quantum theory	K3	3		
8	(b)	Units, prefixes and scientific notation	S4	3	1	
0	(c)	Introduction to quantum theory	K3	3		
	(c)	lintroduction to quantum theory	K2	1	1	
9		Introduction to quantum theory	K2	3	2	
	(a)(i)(A)	Particles from space	K3	3		
	(a)(i)(B)	Angular motion	K3	3		
10	(a)(ii)	Particles from space	S5	3	2	
	(b)	Particles from space	K2	2	2	
	(c )	Particles from space	S6	2	2	
	(a)(i)	Simple harmonic motion	K3	2		
	(a)(ii)	Simple harmonic motion	K3	3		
11	(a)(iii)	Simple harmonic motion	<b>S</b> 3	3	1	
	(b)(i)	Simple harmonic motion	S6	1	1	
	(b)(ii)	Simple harmonic motion	K3	3	2	

2019 Advanced Higher Physics Question Paper						
Question	Part	Course Content	Skills assessed	Maximum mark	A-type Marks	
	(a)(i)	Interference	K2	1	1	
	(a)(ii)	Waves	S5	2	2	
	(b)(i)	Waves	S4	2		
12	(b)(ii)	Uncertainties	S4	4		
12	(c)(i)	Waves	S4	3		
	(c)(ii)(A)	Uncertainties	S7	1		
	(c)(ii)(B)	Uncertainties	S7	1		
	(c)(iii)	Uncertainties	S7	1	1	
	(a)(i)	Interference	K3	4		
	(a)(ii)	Interference	S7	1	1	
13	(b)	Interference	K2	2	2	
	(c)(i)	Interference	K3	3		
	(c)(ii)	Interference	S4	1	1	
	(a)(i)	Fields	K3	2		
14	(a)(ii)	Fields	K3	3	2	
	(b)	Fields	K2	2	2	
	(a)	Fields	S6	1		
15	(b)(i)	Fields	K3	3		
13	(b)(ii)	Fields	S4	2		
	(b)(iii)	Fields	S6	2	2	
	(a)(i)	Circuits	S1	1		
	(a)(ii)	Circuits	S4	2		
16	(a)(iii)	Circuits	K3	3		
	(b)(i)	Circuits	K3	3		
	(b)(ii)	Circuits	S5	2	2	

- 1. This question paper was set pre-2020, and so
- i) the total number of extended-response marks is 140 rather than 155
- ii) the targets for percentages of marks assigned to each skill area differ from those in post-2019 question papers
- iii) the approach to marking changed for some question types following the publication of updated Physics:general marking principles in 2017.
- 2. The project was part of the course assessment in this year, and the target of 30% A-type marks was taken over both project and question paper components of the course assessment, rather than the question paper alone.

		2022 Advanced Higher Physics Question Pape Course	Skills	Maximum	A-type
Question	Part	Content	assessed	mark	Marks
	(a)(i)	Kinematic relationships	K3	3	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1	(a)(ii)	Kinematic relationships	К3	3	
	(b)	Kinematic relationships	S3	1	1
	(a)(i)	Angular motion	К3	3	
_	(a)(ii)	Angular motion	К3	3	
2	(b)(i)	Angular motion	K2	2	1
	(b)(ii)	Angular motion	K2	2	2
	(a)	Rotational dynamics	К3	3	
_	(b)(i)	Rotational dynamics	К3	3	
3	(b)(ii)	Rotational dynamics	K3	4	
	(c)	Angular motion	K2	2	1
	(a)	Gravitation	K3	2	-
	(b)	Gravitation	К3	3	
4	(c)	Gravitation	K3	3	2
	(d)	Gravitation	S6	1	1
	(e)	Gravitation	S4	2	
	(a)	General relativity	К3	3	
	(b)	Stellar physics	K1	1	
5			К3	4	2
	(c)	Stellar physics, Units, prefixes and scientific notation	S4	1	
	(d)	Stellar physics	K2	3	2
	(a)	Introduction to quantum theory	K1	1	
6	(b)	Introduction to quantum theory	K2	2	2
•	(c)	Introduction to quantum theory	K3	3	
7		Introduction to quantum theory	K2	3	2
<u> </u>	(a)(i)	Introduction to quantum theory	K3	3	
	(a)(ii)(A)	Introduction to quantum theory	S6	1	1
8	(a)(ii)(B)	Introduction to quantum theory	K2	2	2
	(b)	Introduction to quantum theory	S5	 1	1
	(a)(i)	Particles from space	S4	1	· ·
	(a)(il)	Particles from space	S4	1	
	(b)(i)	Particles from space	К3	2	
9	(b)(ii)(A)	Particles from space	К3	3	
	(b)(ii)(B)	Angular motion	К3	3	
	(b)(iii)	Angular motion	K3	3	
	(c)	Particles from space	S6	2	2
	(a)	Simple harmonic motion	K1	 1	
	(b)	Simple harmonic motion	K3	2	2
10	(c)(i)	Simple harmonic motion	S4	2	<del>-</del>
	(c)(ii)	Simple harmonic motion	K3	3	
	(c)(iii)	Simple harmonic motion	S3	2	1
	(a)(i)	Waves	K3	3	<del>'</del>
	(a)(il)	Waves	K1	2	
11			K3	2	1
	(b)	Waves	S4	1	1

Question         Part (a)(i)	2022 Advanced Higher Physics Question Paper							
(a)(i)   Interference   K3   3   3	Question	Part	Course	Skills	Maximum	A-type		
(a)(ii)   Data Analysis   K3   3   C	Question	Part	Content	assessed	mark	Marks		
12   (b)   Uncertainties   S4   1   1   1     (c)   Uncertainties   S6   2   2   2   2   (d)   Interference   K2   2   2   2   2   2   2   2   2		(a)(i)	Interference		3			
(c) Uncertainties		(a)(il)	Data Analysis	K3	3			
(d) Interference	12	(b)	Uncertainties	S4	1	1		
(a) Polarisation		(c)	Uncertainties	<b>S6</b>	2	2		
(b)(i) Polarisation		(d)	Interference	K2	2	2		
(b)(ii) Polarisation		(a)	Polarisation	K1	1			
(b)(iii) Polarisation		(b)(i)	Polarisation	S4	1			
13		(b)(ii)	Polarisation	<b>S</b> 3	3			
13		(b)(iii)	Polarisation	S2	1	1		
(b)(iv)       Polarisation       S2       1         (b)(v)       Polarisation       S5       1         (c)(i)       Evaluation and significance of experimental uncertainties       S7       1         (c)(ii)       Evaluation and significance of experimental uncertainties       S7       1       1         (a)       Fields       K3       3         (b)       Fields       K3       3         (c)       Fields       K2       2       1         (d)(i)       Kinematic relationships       K3       2         (d)(ii)       Fields       K3       3         (a)(i)       Fields       K3       3         (a)(ii)       Fields       K3       3         (a)(iii)       Fields       K3       3         (b)       Electromagnetic radiation       S4       2       1         (b)(ii)       Circuits       K3       2       1         (b)(iii)       Circuits       K3       2       1         (c)(i)       Circuits       K3       3       2       1         (c)(iii)       Circuits       K3       3       1       3       1       3       1       3	12	(ווו)	Polarisation	S4	1	1		
(b)(v) Polarisation	13	(b)(iv)	Polarisation	S2	1			
(c)(i)       Evaluation and significance of experimental uncertaintie       S7       1         (c)(ii)       Evaluation and significance of experimental uncertaintie       S7       1       1         (a)       Fields       K3       3         (b)       Fields       S3       1         (c)       Fields       K2       2       1         (d)(i)       Kinematic relationships       K3       2         (d)(ii)       Fields       K3       4       4         (a)(i)       Fields       K3       3         (a)(ii)       Fields       S4       3       1         (b)       Electromagnetic radiation       S4       2       1         (a)       Circuits       K1       1         (b)(ii)       Circuits       K3       2       1         (b)(ii)       Circuits       K3       2       1         (c)(i)       Circuits       K3       3       3         (c)(ii)       Circuits       K3       3       3         (c)(iii)       Circuits       K3       3       3         (c)(iii)       Circuits       K3       3       3         (c)(iii)		(D)(IV)		S4	1			
(c)(ii)       Evaluation and significance of experimental uncertaintie       S7       1       1         (a)       Fields       K3       3         (b)       Fields       S3       1         (c)       Fields       K2       2       1         (d)(i)       Kinematic relationships       K3       2       4       4         (a)(ii)       Fields       K3       3       3       1         (a)(ii)       Fields       K3       3       1         (b)       Electromagnetic radiation       S4       2       1         (a)       Circuits       K1       1         (b)(ii)       Circuits       K3       2       1         (b)(ii)       Circuits       K3       2       1         (c)(i)       Circuits       K3       3       3         (c)(ii)       Circuits       K3       3       3         (c)(iii)       Circuits       K3       3       3         (c)(iii)       Circuits       K3       3       3         (c)(iii)       Circuits       K3       3       3		(b)(v)	Polarisation	S5	1	1		
(a)       Fields       K3       3         (b)       Fields       S3       1         (c)       Fields       K2       2       1         (d)(i)       Kinematic relationships       K3       2         (d)(ii)       Fields       K3       4       4         (a)(i)       Fields       K3       3         (a)(ii)       Fields       K3       3         (b)       Electromagnetic radiation       S4       2       1         (a)       Circuits       K1       1         (b)(i)       Circuits       K3       2       1         (b)(ii)       Circuits       K3       2       1         (c)(i)       Circuits       K3       3       3         (c)(ii)       Circuits       K3       3       3         (c)(iii)       Circuits       K3       3       3		(c)(i)	Evaluation and significance of experimental uncertaintie	S7	1			
(b)       Fields       S3       1         (c)       Fields       K2       2       1         (d)(i)       Kinematic relationships       K3       2         (d)(ii)       Fields       K3       4       4         (a)(i)       Fields       K3       3         (a)(ii)       Fields       S4       3       1         (b)       Electromagnetic radiation       S4       2       1         (a)       Circuits       K1       1         (b)(i)       Circuits       K3       2       1         (b)(ii)       Circuits       S2       1         (c)(i)       Circuits       K3       3         (c)(ii)       Circuits       S2       1		(c)(ii)	Evaluation and significance of experimental uncertaintie	S7	1	1		
14       (c)       Fields       K2       2       1         (d)(i)       Kinematic relationships       K3       2         (d)(ii)       Fields       K3       4       4         (a)(i)       Fields       K3       3         (a)(ii)       Fields       S4       3       1         (b)       Electromagnetic radiation       S4       2       1         (a)       Circuits       K1       1         (b)(i)       Circuits       K3       2       1         (b)(ii)       Circuits       S2       1         (c)(i)       Circuits       K3       3         (c)(ii)       Circuits       S2       1		(a)	Fields	К3	3			
(d)(i)       Kinematic relationships       K3       2         (d)(ii)       Fields       K3       4       4         (a)(i)       Fields       K3       3         (a)(ii)       Fields       S4       3       1         (b)       Electromagnetic radiation       S4       2       1         (a)       Circuits       K1       1         (b)(i)       Circuits       K3       2       1         (b)(ii)       Circuits       S2       1         (c)(i)       Circuits       K3       3         (c)(ii)       Circuits       K3       3         (c)(iii)       Circuits       K3       3		(b)	Fields	<b>S</b> 3	1			
(d)(ii)       Fields       K3       4       4         (a)(i)       Fields       K3       3         (a)(ii)       Fields       S4       3       1         (b)       Electromagnetic radiation       S4       2       1         (a)       Circuits       K1       1         (b)(i)       Circuits       K3       2       1         (b)(ii)       Circuits       S2       1         (c)(i)       Circuits       K3       3         (c)(ii)       Circuits       K3       3         (c)(iii)       Circuits       S2       1	14	(c)	Fields	K2	2	1		
(a)(i)       Fields       K3       3         (a)(ii)       Fields       S4       3       1         (b)       Electromagnetic radiation       S4       2       1         (a)       Circuits       K1       1         (b)(i)       Circuits       K3       2       1         (b)(ii)       Circuits       S2       1         (c)(i)       Circuits       K3       3         (c)(ii)       Circuits       K3       3         (c)(iii)       Circuits       S2       1		(d)(i)	Kinematic relationships	K3	2			
15 (a)(ii) Fields		(d)(ii)	Fields	К3	4	4		
(b) Electromagnetic radiation		(a)(i)	Fields	K3	3			
(a) Circuits	15	(a)(ii)	Fields	S4	3	1		
(b)(i) Circuits		(b)	Electromagnetic radiation	S4	2	1		
16 (b)(ii) Circuits (C)(ii) Circuits (S2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(a)	Circuits	K1	1			
16 (c)(i) Circuits (C)(ii) Circuits (C)(iii) Circuits (C)(iii) Circuits (C)(iii) Circuits (C)(iiii) Circuits (C)(iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii		(b)(i)	Circuits	К3	2	1		
16   S4   Z   1		(b)(ii)	Circuita	S2	1			
(c)(ii) Circuits S2 1	16	(ט)(וו)	Circuits	S4	2	1		
1(C)(11) 1( 1rC)(1fc		(c)(i)	Circuits	К3	3			
(C)(II)   CIICUITS   S4   1		(c)(ii)	Circuite	S2	1			
		(C)(11)	Circuits	S4	1			

#### Note

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

	2023 Advanced Higher Physics Question Paper							
Question	Part	Course Content	Skills assessed	Maximum mark	A-type Marks			
	(a)	Kinematic relationships	K3	3	771011110			
1	(b)	Kinematic relationships	К3	3				
	(a)(i)	Angular motion	К3	2				
	(b)(i)	Angular motion	К3	3				
2	(b)(ii)	Angular motion	K1	1				
	(c)	Angular motion	K2	2	1			
	(a)	Rotational dynamics	К3	2				
	(b)(i)	Rotational dynamics	К3	4				
3	(b)(ii)	Rotational dynamics	K3 S4	3 1				
	(b)(iii)	Rotational dynamics	S6	1	1			
	(a)	Gravitation	K3	2	'			
	(b)	Gravitation	K3	4	2			
	(c)(i)	Gravitation	K3	3				
4	(c)(ii)	Gravitation	K2	1				
	(c)(iii)	Gravitation	K3	3				
	(c)(iv)	Gravitation	S5	1	1			
5	(C)(IV)	General relativity	K2	3	2			
	(a)	Stellar physics	K1	1				
	(b)(i)	Stellar physics	K3	3				
	(b)(ii)	Stellar physics	K1	1				
6	(c)	Stellar physics	K2	2	1			
Ū	(d)	Stellar physics	K3	3	<u>'</u>			
			S4	1				
	(e)	Stellar physics	S3	1				
	(a)(i)	Introduction to quantum theory	K1	1				
	(a)(ii)	Introduction to quantum theory	K3	3				
7	(a)(iii)	Introduction to quantum theory	S4	3				
	(b)	Introduction to quantum theory	S4	2				
	(a)(i)	Introduction to quantum theory	S4	2				
	(a)(ii)	Introduction to quantum theory	S4	3	3			
8	(b)(i)	Fields	К3	2	_			
	(b)(ii)	Introduction to quantum theory	K2	2	1			
	(a)(i)	Particles from space	К3	2				
	(a)(ii)	Particles from space	K2	1	1			
9	(a)(iii)	Particles from space	K2	2	2			
		Introduction to quantum theory	К3	3	3			
	(b)	Units, prefixes, and scientific notation	S4	1				
	(a)	Simple harmonic motion	K1	1				
	(b)(i)	Simple harmonic motion	К3	2				
	(b)(ii)	Simple harmonic motion	К3	3				
10	(c)	Fields	К3	4	4			
	(d)	Waves	К3	3				
	(e)	Waves	К3	3				
	(f)	Simple harmonic motion	S3	1	1			

2023 Advanced Higher Physics Question Paper					
Question	Part	Course	Skills	Maximum	A-type
Question	Part	Content	assessed	mark	Marks
	(a)(i)	Interference	K1	1	
	(a)(ii)	Interference	K1	1	
11	(b)	Interference	K3	3	
	(c)(i)	Interference	<b>S</b> 3	1	1
	(c)(ii)	Interference	K2	1	1
	(a)	Polarisation	K1	1	
	(b)	Polarisation	K3	3	
12	(c)(i)	Polarisation	K3	1	
'2	(C)(1)		S4	2	2
	(c)(ii)	Polarisation	S6	1	1
	(d)	Polarisation	S6	2	2
	(a)	Fields	K3	4	
	(b)	Fields	<b>S</b> 3	2	
13	(c)(i)	Fields	K3	3	
'3		Rotational dynamics	S4	1	
			K3	3	3
	(c)(ii)(B)	Rotational dynamics	S6	2	1
	(a)	Fields	K3	2	
	(b)(i)	b)(i) Fields	S2	1	
14	(6)(1)		S4	2	2
'7	(b)(ii)	Data analysis	K2	1	1
	(b)(iii)	Data analysis	K3	3	
	(b)(iv)	Uncertainties	S7	1	1
	(a)	Circuits	K2	1	1
	(b)(i)	Circuits	S4	2	
	(b)(ii)	Circuits	S2	1	
15			K3	3	
	(c)	Circuits	K2	1	1
	(d)(i)	Circuits	S4	2	
	(d)(ii)	Circuits	S6	2	2
16		Uncertainties/Data analysis/non-specific	K2	3	2

# Note

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

Course		2024 Advanced Higher Physics Question Paper					
(a)   Kinematic relationships   K3   3   (b)   Kinematic relationships   K3   3   3   (b)   Kinematic relationships   K3   3   2   (b)   (ii)   Angular motion   K3   2   (b)   (iii)   Angular motion   K3   2   (b)   (iii)   Angular motion   K3   2   (c)   (a)   (b)   (iii)   Angular motion   K3   2   (c)   (a)   (b)   (iii)   Angular motion   K2   2   2   2   (a)   (b)   (iii)   Angular motion   K3   2   (b)   (iii)   Angular motion   K3   2   (b)   (iii)   Angular motion   K3   3   3   (c)   (iii)   Gravitation   K3   3   3   (a)   (b)   Gravitation   K3   3   3   (a)   (b)   Gravitation   K3   3   3   (a)   (b)   Gravitation   K3   3   3   (a)   (a)   General relativity   K3   3   (a)   (a)   General relativity   S4   2   (c)   (i)   Angular motion   K3   3   3   (a)   (ii)   General relativity   S4   2   (c)   (ii)   Angular motion   K3   3   3   (a)   (ii)   Stellar physics   K3   3   3   (a)   (ii)   Stellar physics   K3   3   3   (a)   (ii)   Stellar physics   K1   1   (b)   (ii)   Stellar physics   K1   1   (b)   (ii)   Introduction to quantum theory   K1   1   (c)   (ii)   Introduction to quantum theory   K2   2   (a)   (b)   (iii)   Simple harmonic motion (SHM)   K3   3   (a)   (b)   (iii)   Simple harmonic motion (SHM)   K3   3   (a)   (a)   (iii)   Simple harmonic motion (SHM)   K3   3   (a)	Question	Part	Course				
(b) Kinematic relationships (a) Angular motion (b) Angular motion (b) Angular motion (c) (d) Angular motion (e) Angular motion (d) Angular motion (e) Angular motion (d) Angular motion (e) Angular motion (e) Angular motion (f) Angular motion		(2)				marks	
(a) Angular motion (b) (ii) Angular motion (c) (b) (iii) Angular motion (c) (b) (iiii) Angular motion (c) (d) (d) (d) Angular motion (d)	1						
(b)(ii) Angular motion		` '	•				
Description		` '					
(b)(iii)   Angular motion   K3   2	2						
C)   Angular motion   K2   2   2   2							
(a) Rotational dynamics (b)(ii) Angular motion (c)(iii) Rotational dynamics (c)(iii) Gravitation (c)(iii) Gravitation (c)(iii) Gravitation (c)(iii) Gravitation (c)(iii) Gravitation (c)(c)(iii) Gravitation (c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(							
(b)(i)		· '				<u> </u>	
(b)(ii)   Rotational dynamics   K3   3   (c)(i)   Angular motion   S3   1   (c)(ii)   Rotational dynamics   K2   1   1   1   (d)   Rotational dynamics   K2   1   1   1   (d)   Rotational dynamics   K3   3   (d)   Rotational dynamics   K3   3   (d)   Gravitation   K3   3   (d)(ii)   Gravitation   K3   3   (d)(ii)   Gravitation   K2   2   2   2   (c)   Gravitation   K3   3   (d)(ii)   General relativity   K3   3   (a)(ii)   General relativity   K3   3   (a)(ii)   General relativity   S4   2   (b)   General relativity   S4   2   (c)(ii)   Angular motion   K3   3   3   (c)(ii)   General relativity   K2   2   2   (a)(i)   Stellar physics   K3   3   3   (a)(ii)   Stellar physics   K3   3   (a)(ii)   Stellar physics   K3   3   (a)(ii)   Stellar physics   K3   3   (b)(ii)   Stellar physics   S6   1   1   (b)(ii)   Introduction to quantum theory   K1   1   (b)(ii)   Introduction to quantum theory   K3   3   (c)(ii)   Introduction to quantum theory   K2   1   (c)(ii)   Introduction to quantum theory   K2   1   (c)(ii)   Introduction to quantum theory   S6   2   1   (d)(ii)   Simple harmonic motion (SHM)   K3   3   (d)(ii)   Simple harmonic motion (SHM)   K3   2   (d)(ii)   Simple harmonic motion (SHM)   K3   2   (d)(ii)   Simple harmonic motion (SHM)   K1   1   (d)(ii)   Simple harmonic motion (SHM)   K1   1   (d)(ii)   Simple harmonic motion (SHM)   K3   3   (d)(ii)   Waves   K3   4   (d)(ii)   Waves   K3   4   (d)(iii)   Waves   K3   (d)(iii)   Waves   K3   (d)(iii)		` '	•				
Colin				1			
C()(ii)   Rotational dynamics   K2	3		· · · · · · · · · · · · · · · · · · ·				
(d) Rotational dynamics							
(a) Gravitation (R3 3 3 (b)(i) Gravitation (R3 3 3 (b)(i) Gravitation (R2 2 2 2 2 (c) Gravitation (R2 2 2 2 2 (c) Gravitation (R2 2 2 2 2 2 (c) Gravitation (R3 3 3 (a)(ii) General relativity (R3 3 3 (a)(ii) General relativity (R3 4 2 2 (b) General relativity (R4 2 2 2 2 (a)(i) General relativity (R4 2 3 3 3 3 (c)(ii) General relativity (R4 2 3 3 3 3 (c)(ii) General relativity (R4 2 3 3 3 3 (c)(ii) General relativity (R4 2 3 3 3 3 (c)(ii) General relativity (R4 2 3 3 3 (a)(ii) Stellar physics (R4 1 1 1 (b)(ii) Stellar physics (R4 1 1 1 (b)(ii) General relativity (R4 2 3 3 3 (a)(ii) General relativity (R4 4 2 2 2 2 (a)(ii) General relativity (R4 4 2 2 2 2 (a)(ii) General relativity (R4 4 2 2 2						1	
(b)(i)   Gravitation   K3   3   (b)(ii)   Gravitation   K2   2   2   2   (c)   Gravitation   S6   1   1   1   (a)(i)   General relativity   K3   3   3   (a)(ii)   General relativity   S4   2   (b)   General relativity   S4   2   (c)(i)   Angular motion   K3   3   3   (c)(ii)   General relativity   K2   2   2   2   (a)(i)   Stellar physics   K3   3   (c)(ii)   General relativity   K2   2   2   2   (a)(i)   Stellar physics   K3   3   (c)(ii)   General relativity   K2   2   2   2   (a)(i)   Stellar physics   K3   3   (a)(iii)   Stellar physics   K3   3   (b)(i)   Stellar physics   K3   3   (b)(i)   Stellar physics   K1   1   (c)   (c)   Stellar physics   S6   1   1   (d)		` '					
(b)(ii)   Gravitation   K2   2   2   2   2   (c)   Gravitation   S6   1   1   1   1   1   1   1   1   1		` '					
(c) Gravitation	4					_	
(a)(i) General relativity	-					<del> </del>	
(a)(ii)         General relativity         54         2           (b)         General relativity         54         1           (c)(ii)         Angular motion         K3         3         3           (c)(iii)         General relativity         K2         2         2           (a)(i)         Stellar physics         K3         3           (a)(iii)         Stellar physics         K1         1           (b)(ii)         Stellar physics         56         1         1           (c)         Stellar physics         56         1         1           (a)         Introduction to quantum theory         K1         1         1           (b)(ii)         Introduction to quantum theory         K2         1           (c)(ii)         Introduction to quantum theory         56         2         1           (a)(iii)         Particles from space         K2         2           (a)(iii)         Particles from space         K3		<u> </u>				1	
Second Columbia							
(c)(i) Angular motion			-				
(c)(ii) General relativity	5	` '					
(a)(i)   Stellar physics   K3   3   (a)(ii)   Stellar physics   K3   3   (b)(i)   Stellar physics   K1   1   (b)(ii)   Stellar physics   S6   1   1   (c)   Stellar physics   S6   1   1   (c)   Stellar physics   S6   1   1   (d)   (d)(ii)   Introduction to quantum theory   K1   1   (d)   (d)(ii)   Introduction to quantum theory   K2   1   (d)   (d)(ii)   Introduction to quantum theory   K2   1   (d)(i)   Introduction to quantum theory   S2   1   (d)(i)   Introduction to quantum theory   S6   2   1   (d)(i)   Particles from space   K2   2   (d)(i)   Particles from space   K2   2   (d)(i)   Particles from space   S2   1   (d)(i)   Particles from space   S2   1   (d)(i)   Particles from space   S2   1   (d)(i)   Simple harmonic motion (SHM)   K3   3   (d)(i)   Simple harmonic motion (SHM)   K3   3   (d)(i)   Simple harmonic motion (SHM)   K3   2   (d)(ii)   Simple harmonic motion (SHM)   K2   2   2   2   (c)(i)   Simple harmonic motion (SHM)   K1   1   (d)(ii)   Simple harmonic motion (SHM)   K1   1   (d)(ii)   Simple harmonic motion (SHM)   K1   1   (d)(ii)   Simple harmonic motion (SHM)   K3   3   (d)(ii)   Waves   S6   1   (d)(iii)   Waves   S6   1   (d)(iii)   Waves   S6   1   (d)(iii)   Waves   S6   1   (d)(iii)   Waves   S6   1   (d)(ii)   Waves   S6   1   (d)(ii)   Waves   S6   (d)(ii)   (d)(ii)   (d)(ii)   Waves   S6   (d)(ii)   (d)(ii							
(a)(ii) Stellar physics		(c)(ii)			2	2	
6		(a)(i)	Stellar physics	K3	3		
(b)(ii)		(a)(ii)		K3	3		
(c) Stellar physics	6	(b)(i)	Stellar physics	K1	1		
(a) Introduction to quantum theory (b)(i) Introduction to quantum theory (c)(ii) Introduction to quantum theory (c)(ii) Introduction to quantum theory (c)(iii) Particles from space (c)(iii) Simple harmonic motion (SHM) (c)(iiii) Simple harmonic motion (SHM) (c)(iii) Simple harmonic motion (SHM) (c)(iiii) Simple		(b)(ii)	Stellar physics	S6	1	1	
(b)(i)		(c)	Stellar physics	S6	1	1	
(b)(ii)		(a)	Introduction to quantum theory	K1	1		
Co)(i)		(b)(i)	Introduction to quantum theory	K3	3		
(c)(i)   Introduction to quantum theory   S2   1   S4   2	7	(b)(ii)	Introduction to quantum theory	K2	1		
(c)(ii) Introduction to quantum theory	,	(c)(i)	Introduction to quantum theory	S2	1		
(a)(i)		(C)(1)	introduction to quantum theory	S4	2		
8 (a)(ii) Particles from space		(c)(ii)	Introduction to quantum theory	S6	2	1	
8 (a)(ii) Particles from space		(a)(i)	Particles from space	K2	2		
Barticles from space   S2   1			ii) Particles from space	S4	1	1	
(b)   Particles from space	8			K3	4	2	
(a) Simple harmonic motion (SHM) (b)(i) Simple harmonic motion (SHM) (b)(ii) Simple harmonic motion (SHM) (b)(iii) Simple harmonic motion (SHM) (c)(ii) Simple harmonic motion (SHM) (a)(i) Waves (a)(ii) Waves (b) Angular motion (b) Angular motion		(b)	Particles from space	S2			
9				K2	1	1	
(b)(i) Simple harmonic motion (SHM) (b)(ii) Simple harmonic motion (SHM) (b)(iii) Simple harmonic motion (SHM) (c)(i) Simple harmonic motion (SHM) (c)(ii) Simple harmonic motion (SHM) (c)(ii) Simple harmonic motion (SHM) (c)(ii) Simple harmonic motion (SHM) (a)(i) Waves (a)(ii) Waves (a)(iii) Waves (b) Angular motion (K3 3 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		(a)	Simple harmonic motion (SHM)	К3	3		
9			• • • • • • • • • • • • • • • • • • • •	К3			
(b)(iii) Simple harmonic motion (SHM) (c)(i) Simple harmonic motion (SHM) (c)(ii) Simple harmonic motion (SHM) (c)(ii) Simple harmonic motion (SHM) (a)(i) Waves (a)(ii) Waves (a)(iii) Waves (b) Angular motion (c)(iii) Simple harmonic motion (SHM) (c)(iii) Simple harmonic motion (SHM) (d)(ii) Waves (d)(iii) Waves (d)(iii) Waves (d)(iii) Waves (d)(iiii) Waves (d)(iiii) Waves (d)(iiii) Waves (d)(iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	9						
(c)(i) Simple harmonic motion (SHM) (c)(ii) Simple harmonic motion (SHM) (a)(i) Waves (a)(ii) Waves (a)(iii) Waves (a)(iii) Waves (b) Angular motion (SHM) (ST 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						2	
(c)(ii) Simple harmonic motion (SHM) S7 1 1  (a)(i) Waves K3 4  (a)(ii) Waves K3 3  (a)(iii) Waves S6 1  (b) Angular motion K3 2						_	
(a)(i) Waves K3 4 (a)(ii) Waves K3 3 (a)(iii) Waves S6 1 (b) Angular motion K3 2						1	
(a)(ii) Waves K3 3 (a)(iii) Waves S6 1 (b) Angular motion K3 2						<u> </u>	
10 (a)(iii) Waves S6 1 (b) Angular motion K3 2							
(b) Angular motion K3 2	10						
I(D) IADOUAT MOTION							
		(b)	Angular motion				

2024 Advanced Higher Physics Question Paper					
		Course	Skills	Maximum	A-type
Question	Part	Content	assessed	mark	Marks
	(a)	Interference	K2	2	1
	(b)(i)	Interference	K3	3	
	(0)(1)	Interference	S4	1	
11	(b)(ii)	Evaluation of significance of experimental uncertainties	S7	1	1
	(c)(i)	Interference	K2	2	1
	(c)(ii)(A)	Evaluation of significance of experimental uncertainties	K2	1	1
	(c)(ii)(B)	Evaluation of significance of experimental uncertainties	K2	1	1
12	(a)	Polarisation	S1	2	
12	(b)	Polarisation	K2	3	2
	(a)(i)	Fields	K1	1	
ı	(a)(ii)	Fields	К3	3	
13	(b)(i)	Fields	S4	2	
13	(b)(ii)	Fields	S6	1	1
	(c)(i)	Fields	K3	4	2
	(c)(ii)	Fields	S6	1	1
	(a)	Fields	S3	2	1
	(b)	Fields	S4	2	
14	(c)(i)	Fields	K1	1	
	(c)(ii)	Fields	K1	1	
	(c)(iii)	Fields	S5	1	1
15		Fields	K2	3	2
	(a)(i)	Circuits	K1	1	
	(a)(ii)	Circuits	К3	2	
16			S4	1	
16	(b)	Circuits	K2	2	2
	(c)(i)	Circuits	K1	1	
	(c)(ii)	Circuits	К3	3	
17	(a)(i)	Uncertainties	К3	1	
	(a)(ii)	Uncertainties	К3	2	
	(b)	Data analysis	S4	3	2
	(c)	Data analysis	K2	2	1

2025 Advanced Higher Physics Question Paper						
Question	Part	Course	Skills	Maximum	A-type	
Question		Content	assessed	mark	Marks	
1	(a)	Kinematic relationships	K3	3		
	(b)	Kinematic relationships	K3	4		
	(a)(i)	Angular motion	K3	3		
2	(a)(ii)	Rotational dynamics	K3	3		
-	(b)	Rotational dynamics	K2	2		
	(c)	Rotational dynamics	K2	1	1	
	(a)	Angular motion	K3	2		
	(b)	Rotational dynamics	K3	3		
3	(c)(i)	Rotational dynamics	K1	1		
	(c)(ii)	Rotational dynamics	K3	3		
	(d)	Stellar physics	K2	3	2	
	(a)(i)	Gravitation	K3	3		
4	(a)(ii)	Gravitation	S6	1	1	
4	(b)	Gravitation	S4	3	2	
	(c)	General relativity	K2	2	2	
	(a)	Stellar physics	K3	3		
E	(b)(i)	Stellar physics	К3	2		
5	(b)(ii)	Stellar physics	K2	2	1	
	(c)	Stellar physics	S6	3	2	
	(a)(i)	Introduction to quantum theory	K1	1		
	(a)(ii)	Introduction to quantum theory	S3	1	1	
	(b)(i)	Introduction to quantum theory	S2	1		
6	(b)(ii)	Stellar physics	К3	3		
	(b)(iii)	Stellar physics	S6	1	1	
	(c)(i)	Introduction to quantum theory	К3	3		
	(c)(ii)	Introduction to quantum theory	K2	1	1	
	(a)	Particles from space	K1	1		
_	(b)	Particles from space	K2	2		
7	(c)(i)	Introduction to quantum theory	К3	1		
	(c)(ii)	Introduction to quantum theory	К3	3		
8	(-)(-)	Introduction to quantum theory	K2	3	2	
	(a)	Rotational dynamics	K3	4		
	(b)(i)	Simple harmonic motion (SHM)	K3	3		
	(b)(ii)	Simple harmonic motion (SHM)	K3	3		
9	(b)(iii)	Simple harmonic motion (SHM)	K3	3		
	(b)(iv)	Simple harmonic motion (SHM)	S3	3	1	
	(c)	Simple harmonic motion (SHM)	S6	1	1	
	(a)	Waves	K3	2	2	
			S6	1	1	
10	(b)	Waves	K3	3	<u> </u>	
10			\$3	1		
	(c)	Circuits	K2	1	1	
	(a)(i)	Interference	K1	1	<del>- '</del> -	
	(a)(ii)	Interference	S1	1	1	
	(a)(iii)	Interference	K3	3	1	
	(b)(i)(A)	Interference	K1	1	-	
11	(b)(i)(A) (b)(i)(B)	Interference	K1	1	<del>                                     </del>	
	(b)(ii)	Interference	K3	2	<del>                                     </del>	
		Interference	K3	2	<del>                                     </del>	
	(c)(i)	Interference	S7	1	1	
	(c)(ii)	interrelette	اد ا	l I	1	

	2025 Advanced Higher Physics Question Paper					
Question	Part	Course	Skills	Maximum	A-type	
		Content	assessed	mark	Marks	
	(a)	Polarisation	K1	1		
12	(b)(i)	Polarisation	K3	3	2	
12			S4	1	1	
	(b)(ii)	Data analysis	S7	1		
	(a)	Fields	<b>S</b> 3	1		
	(b)	Fields	K3	2		
13	(c)(i)	Rotational dynamics	S4	3	3	
	(c)(ii)	Fields	K3	3		
	(d)	Fields	S6	2	1	
	(a)(i)	Fields	K3	2		
	(a)(ii)	Fields	S4	2		
14	(4)(11)		K3	1		
17	(a)(iii)	Fields	K2	1	1	
	(b)	Fields	S4	4	2	
	(c)	Fields	K2	2		
	(a)(i)	Circuits	K2	2	1	
	(a)(ii)	Circuits	K3	3	2	
15	(a)(iii)	Circuits	K3	3		
	(b)	Circuits	S6	2	1	
	(c)	Circuits	S4	3		
	(a)	Data analysis	S2	1		
			S4	2		
16	(b)(i)	Uncertainties	K3	3	3	
			S4	1		
	(b)(ii)	Uncertainties	S7	1	1	