

Unit Code J247/04

Qual Name GCSE Biology A (Gateway)

Qual Title Paper 04 (Biology) (Higher)

Question Set	Q. No	Total Marks	AO	Spec Ref.	Topic	Question Subject, If required	Additional Notes/Comments	Maths	Practical Assessment
1	1a	1	AO1	4.1g	B4.1 Ecosystems	This question is about interdependence	Overlap question with Foundation Tier		
1	1b	2	AO2	4.1g 1.4a	B4.1 Ecosystems	This question is about interdependence	Overlap question with Foundation Tier		
1	1c	1	AO2	6.1b 2.2a	B6.1 Monitoring and maintaining the environment	This question is about air pollution	Overlap question with Foundation Tier		
1	1di	1	AO1	6.1a	B6.1 Monitoring and maintaining the environment	This question is about air pollution	Overlap question with Foundation Tier		Y
1	1dii	2	AO2	6.1b 2.2a	B6.1 Monitoring and maintaining the environment	This question is about air pollution	Overlap question with Foundation Tier		Y
1	1diii	2	AO3	6.1b	B6.1 Monitoring and maintaining the environment	This question is about air pollution	Overlap question with Foundation Tier		Y
1	1div	3	AO3	6.1d	B6.1 Monitoring and maintaining the environment	This question is about air pollution	Overlap question with Foundation Tier		Y
2	1ai	1	AO2	4.1d 1.2g	B4.1 Ecosystems	This question is about decomposition			
2	1aai	1	AO2	4.1d 1.2g	B4.1 Ecosystems	This question is about decomposition			
2	1b	2	AO1	4.1d 1.3b	B4.1 Ecosystems	This question is about decomposition			
2	1c	2	AO3	4.1d	B4.1 Ecosystems	This question is about decomposition			
3	1a	2	AO1	6.3o	B6.3 Monitoring and maintaining health	This question is about antibiotics			
3	1bi	2	AO2	6.3p 2.1a 1.2g	B6.3 Monitoring and maintaining health	This question is about antibiotics			Y
3	1bii	1	AO1	6.3p	B6.3 Monitoring and maintaining health	This question is about antibiotics			Y
3	1ci	3	AO2	6.3p	B6.3 Monitoring and maintaining health	This question is about antibiotics	<i>Please note: images are not to scale as they may vary in colour, density, shade and size when reproduced using different printers and photocopiers.</i>	Y	

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3	1cii	2	AO3	6.3p	B6.3 Monitoring and maintaining health	This question is about antibiotics		
						<i>Please note: images are not to scale as they may vary in colour, density, shade and size when reproduced using different printers and photocopiers.</i>		
3	1di	2	AO1	6.3o 1.2g	B6.3 Monitoring and maintaining health	This question is about antibiotics	Y	
3	1dii	6	AO2	6.3o 5.2e	B6.3 Monitoring and maintaining health	This question is about antibiotics	LoR Question	
4	1a	4	AO1	5.1e 1.2e	B5.1 Inheritance	This question is about genetics		
4	1b	2	AO2	5.1a	B5.1 Inheritance	This question is about genetics		
4	1ci	2	AO2	5.1j	B5.1 Inheritance	This question is about genetics		
4	ii	4	AO2	5.1j 3.3c	B5.1 Inheritance	This question is about genetics		
5	1ai	1	AO1	6.2b	B6.2 Feeding the human race	This question is about fungal diseases		
5	1aii	3	AO1	6.2c	B6.2 Feeding the human race	This question is about fungal diseases		
5	1b	2	AO3	6.2a	B6.2 Feeding the human race	This question is about fungal diseases		
5	1ci	1	AO2	6.2a	B6.2 Feeding the human race	This question is about fungal diseases		
5	1cii	1	AO3	6.2a	B6.2 Feeding the human race	This question is about fungal diseases		
5	1d	2	AO3	6.2f	B6.2 Feeding the human race	This question is about fungal diseases		
6	1ai	1	AO1	2.2d	B2.2 The challenges of size	This question is about heart disease		
6	1aii	1	AO1	2.2d	B2.2 The challenges of size	This question is about heart disease		
6	1bi	2	AO2	6.3s	B6.3 Monitoring and maintaining health	This question is about heart disease		Y
6	1bii	1	AO3	6.3r	B6.3 Monitoring and maintaining health	This question is about heart disease		Y
6	1biii	2	AO1	6.3r	B6.3 Monitoring and maintaining health	This question is about heart disease		
7	1ai	1	AO1	4.1h	B4.1 Ecosystems	This question is about food chains		
7	1aii	2	AO1	4.1i	B4.1 Ecosystems	This question is about food chains		
7	1bi	5	AO1	4.1g	B4.1 Ecosystems	This question is about evolution		
7	1bii	2	AO2	5.2d	B5.2 Natural selection and evolution	This question is about evolution		
8	1a	1	AO1	B4.1h	B4.1 Ecosystems	This question is about interdependence	Overlap with Foundation Tier	
8	1b	2	AO3	B4.1g	B4.1 Ecosystems	This question is about interdependence	Overlap with Foundation Tier	
8	1ci	2	AO2	B4.1f	B4.1 Ecosystems	This question is about interdependence	Overlap with Foundation Tier	
8	1cii	4	AO2	B5.2c	B5.2 Natural selection and evolution	This question is about evolution	Overlap with Foundation Tier	

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9	1a	5	AO2	B6.1a	B6.1 Monitoring and maintaining the environment	This question is about sampling		Y	Y
9	1b	4	AO3	B4.1f B1.4e	B4.1 Ecosystems	This question is about sampling			Y
10	1a	2	AO1	B5.1a	B5.1 Inheritance	This question is about genetics			
10	1bi	3	AO2	B5.1j	B5.1 Inheritance	This question is about genetics		Y	
10	1bii	3	AO2	B5.1i B3.1d	B5.1 Inheritance	This question is about genetics			
10	1ci	2	AO1	B6.3v B2.1e	B6.3 Monitoring and maintaining health	This question is about stem cells			
10	1cii	1	AO2	B6.3l	B6.3 Monitoring and maintaining health	This question is about stem cells			
11	1a	2	AO1	B5.1k	B5.1 Inheritance	This question is about sex determination			
11	1b	2	AO2	B5.1k	B5.1 Inheritance	This question is about sex determination		Y	
11	1c	1	AO3	B5.1k	B5.1 Inheritance	This question is about sex determination			
12	1a	3	AO3	B4.1b	B4.1 Ecosystems	This question is about decomposition			
12	1b	2	AO2	B4.1b B2.2a	B4.1 Ecosystems	This question is about decomposition			
12	1c	3	AO1	B4.1a	B4.1 Ecosystems	This question is about decomposition			
13	1a	1	AO3	B6.1b	B6.1 Monitoring and maintaining the environment	This question is about acid rain			Y
13	1b	1	AO3	B6.1b	B6.1 Monitoring and maintaining the environment	This question is about acid rain			Y
13	1c	1	AO3	B6.1b	B6.1 Monitoring and maintaining the environment	This question is about acid rain			Y
13	1d	2	AO3	B6.1b B6.1d	B6.1 Monitoring and maintaining the environment	This question is about acid rain			Y
13	1ei	2	AO2	B6.1d	B6.1 Monitoring and maintaining the environment	This question is about acid rain		Y	Y
13	1eii	2	AO3	B6.1d	B6.1 Monitoring and maintaining the environment	This question is about acid rain			Y
14	1a	2	AO1	B6.3l	B6.3 Monitoring and maintaining health	This question is about antibodies			
14	1b	4	AO1	B6.3m	B6.3 Monitoring and maintaining health	This question is about antibodies			
14	1c	2	AO1	B6.3l	B6.3 Monitoring and maintaining health	This question is about antibodies			
15	1ai	2	AO2	B4.1j	B4.1 Ecosystems	This question is about food chains		Y	
15	1aii	2	AO1	B4.1i	B4.1 Ecosystems	This question is about food chains			
15	1b	6	AO1	B1.4e B4.1i B5.1e	B4.1 Ecosystems	This question is about food chains	LoR Question		

Question Set	Total Marks	AO	Spec Ref.	Topic	Question Subject, If required	Additional Notes/Comments	Maths	Practical Assessment
15	1ci	2	AO2	B1.2d	B1.2 What happens in cells	This question is about protein synthesis		
15	1cii	2	AO2	B4.1j	B4.1 Ecosystems	This question is about genetic modification	Y	
15	1ciii	2	AO2	B6.2f	B5.2 Natural selection and evolution	This question is about genetic modification		
16	1ai	2	AO2	B4.1h	B4.1 Ecosystems	This question is about interdependence		
16	1aii	2	AO2	B4.1g	B4.1 Ecosystems	This question is about interdependence		
16	1bi	1	AO1	B4.1h	B4.1 Ecosystems	This question is about interdependence		
16	1bii	4	AO2	B4.1f/g	B4.1 Ecosystems	This question is about interdependence	Y	Y
16	1biii	3	AO3	B4.1g	B4.1 Ecosystems	This question is about interdependence		
17	1a	2	AO1	B4.1c B1.3a B1.4b	B4.1 Ecosystems	This question is about the carbon cycle		
17	1bi	2	AO1	B4.1b	B4.1 Ecosystems	This question is about decomposition		
17	1bii	2	AO2	B4.1c B1.3c B1.4b	B4.1 Ecosystems	This question is about photosynthesis and respiration		
18	1a	3	AO1	B6.3f / B2.2g	B6.3 Monitoring and maintaining health	This question is about fungal diseases		
18	1bi	1	AO2	B6.3d/e	B6.3 Monitoring and maintaining health	This question is about fungal diseases		
18	1bii	2	AO2	B6.3d/e	B6.3 Monitoring and maintaining health	This question is about fungal diseases		
18	1c	2	AO3	B6.2b	B6.3 Monitoring and maintaining health	This question is about fungal diseases		Y
19	1a	4	AO2	B5.2c	B5.2 Natural selection and evolution	This question is about evolution		
19	1b	4	AO3	B6.1b	B6.1 Monitoring and maintaining the environment	This question is about global warming		
20	1a	2	AO1	B6.3l	B6.3 Monitoring and maintaining health	This question is about drug testing		
20	1bi	3	AO1	B6.3q	B6.3 Monitoring and maintaining health	This question is about drug testing		
20	1bii	3	AO2	B6.3q	B6.3 Monitoring and maintaining health	This question is about drug testing	Y	
20	1c	2	AO1	B6.3m	B6.3 Monitoring and maintaining health	This question is about monoclonal antibodies		
21	1a	2	AO1	B5.1a	B5.1 Inheritance	This question is about genetic disorders		
21	1b	6	AO2	B6.3x	B6.3 Monitoring and maintaining health	This question is about genetic disorders	LoR Question	
21	1c	2	AO2	B6.3x B1.2d	B6.3 Monitoring and maintaining health	This question is about genetic disorders		

Question Set	Total Marks	AO	Spec Ref.	Topic	Question Subject, If required	Additional Notes/Comments	Maths	Practical Assessment
22	1a	1	AO2	B4.1f B2.1a	B4.1 Ecosystems	This question is about osmosis		
22	1bi	3	AO1	B6.1a	B6.1 Monitoring and maintaining the environment	This question is about sampling	Y	Y
22	1bii	3	AO3	B6.1a	B6.1 Monitoring and maintaining the environment	This question is about sampling		Y
22	1biii	1	AO3	B6.1a	B6.1 Monitoring and maintaining the environment	This question is about sampling		Y
22	1c	2	AO3	B6.1b	B6.1 Monitoring and maintaining the environment	This question is about biodiversity		
23	1a	2	AO2	B6.3j	B6.3 Monitoring and maintaining health	This question is about genetics		
23	1b	3	AO2	B5.1i	B5.1 Inheritance	This question is about genetics		
23	1c	2	AO2	B5.1i	B5.1 Inheritance	This question is about genetics		
23	1di	1	AO1	B6.2e	B6.2 Feeding the human race	This question is about genetics		
23	1dii	3	AO2	B5.1k	B5.1 Inheritance	This question is about genetics		
24	1	1	AO1	4.1e	B4.1 Ecosystems			
24	2	1	AO2	4.1j	B4.1 Ecosystems		Y	
24	3	1	AO1	4.1i	B4.1 Ecosystems			
25	1	1	AO2	5.1g	B5.1 Inheritance			
25	2	1	AO2	5.1d	B5.1 Inheritance			
25	3	1	AO2	5.1e	B5.1 Inheritance			
25	4	1	AO1	5.1d	B5.1 Inheritance			
25	5	1	AO1	5.1h	B5.1 Inheritance			
25	6	1	AO1	5.1b	B5.1 Inheritance			
25	7	1	AO2	5.1a	B5.1 Inheritance			
25	8	1	AO1	5.2f	B5.2 Natural selection and evolution			
25	9	1	AO1	5.2b	B5.2 Natural selection and evolution			
25	10	1	AO1	5.1m	B5.1 Inheritance			
25	11	1	AO2	5.2b	B5.2 Natural selection and evolution			
25	12	1	AO1	5.2e	B5.2 Natural selection and evolution			
25	13	1	AO1	5.1e	B5.1 Inheritance			
26	1	1	AO1	6.3f	B6.3 Monitoring and maintaing health			
26	2	1	AO1	6.3k	B6.3 Monitoring and maintaing health			
26	3	1	AO2	6.3o	B6.3 Monitoring and maintaing health			
26	4	1	AO2	6.1a	B6.1 Monitoring and maintaining the environment			
26	5	1	AO2	6.1b	B6.1 Monitoring and maintaining the environment			

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26	6	1	AO1	6.3n	B6.3 Monitoring and maintaing health			
26	7	1	AO1	6.3v	B6.3 Monitoring and maintaing health			
26	8	1	AO2	6.3x	B6.3 Monitoring and maintaing health			
26	9	1	AO1	6.2e	B6.2 Feeding the human race			
26	10	1	AO1	6.2d	B6.2 Feeding the human race			
26	11	1	AO1	6.3h	B6.3 Monitoring and maintaing health			
26	12	1	AO1	6.3f	B6.3 Monitoring and maintaing health			
26	13	1	AO2	6.3r	B6.3 Monitoring and maintaing health			
26	14	1	AO1	6.3j	B6.3 Monitoring and maintaing health			
26	15	1	AO2	6.1b	B6.1 Monitoring and maintaining the environment		Y	
26	16	1	AO1	6.1a	B6.1 Monitoring and maintaining the environment		Y	
26	17	1	AO1	6.2e	B6.2 Feeding the human race			
26	18	1	AO1	6.2b	B6.2 Feeding the human race			
26	19	1	AO1	6.3c	B6.3 Monitoring and maintaing health			
26	20	1	AO2	6.3d	B6.3 Monitoring and maintaing health		Y	Y
26	21	1	AO1	6.1a	B6.1 Monitoring and maintaining the environment			Y
26	22	1	AO1	6.3r	B6.3 Monitoring and maintaing health			
26	23	1	AO1	6.3p	B6.3 Monitoring and maintaing health		Y	Y
26	24	1	AO1	6.3f	B6.3 Monitoring and maintaing health			
26	25	1	AO1	6.1c	B6.1 Monitoring and maintaining the environment			
26	26	1	AO1	6.3u	B6.3 Monitoring and maintaing health			
26	27	1	AO1	6.3o	B6.3 Monitoring and maintaing health			
26	28	1	AO2	6.3q	B6.3 Monitoring and maintaing health			
26	29	1	AO1	6.2e	B6.2 Feeding the human race			