

IGCSE Biology

Past-Paper Exercise Sheets — Question Index

56 subtopics • 328 questions • 1244 marks

1.1 Characteristics of living organisms

5 questions, 5 marks • multiple choice x5

Source	Q	Type	Marks
0610/21 N25	1	multiple choice	1
0610/23 N25	1	multiple choice	1
0610/21 J25	1	multiple choice	1
0610/22 J25	1	multiple choice	1
0610/23 J25	1	multiple choice	1

1.2 Concept and uses of classification systems

9 questions, 40 marks • multiple choice x6, calculation x3

Source	Q	Type	Marks
0610/21 N25	2	multiple choice	1
0610/22 N25	1	multiple choice	1
0610/22 N25	2	multiple choice	1
0610/23 N25	2	multiple choice	1
0610/41 N25	1	calculation	12
0610/43 N25	1	calculation	10
0610/22 J25	2	multiple choice	1
0610/41 J25	5	calculation	12
0610/22 M25	1	multiple choice	1

1.3 Features of organisms

8 questions, 89 marks • calculation x5, multiple choice x3

Source	Q	Type	Marks
0610/41 N25	4	calculation	18
0610/42 N25	2	calculation	16
0610/62 N25	3	calculation	20
0610/63 N25	3	calculation	15
0610/21 J25	2	multiple choice	1
0610/22 J25	3	multiple choice	1
0610/43 J25	4	calculation	17
0610/22 M25	2	multiple choice	1

2.1 Cell structure

8 questions, 29 marks • multiple choice x6, calculation x2

Source	Q	Type	Marks
0610/21 N25	3	multiple choice	1
0610/22 N25	4	multiple choice	1
0610/23 N25	3	multiple choice	1
0610/41 N25	1	calculation	12
0610/21 J25	3	multiple choice	1
0610/23 J25	2	multiple choice	1
0610/42 J25	5	calculation	11
0610/22 M25	3	multiple choice	1

2.2 Size of specimens

6 questions, 39 marks • multiple choice x4, calculation x2

Source	Q	Type	Marks
0610/21 N25	4	multiple choice	1
0610/23 N25	4	multiple choice	1
0610/62 N25	3	calculation	20
0610/63 N25	3	calculation	15
0610/22 J25	5	multiple choice	1
0610/22 M25	4	multiple choice	1

3.1 Diffusion

3 questions, 33 marks • calculation x2, multiple choice

Source	Q	Type	Marks
0610/23 N25	5	multiple choice	1
0610/61 J25	1	calculation	16
0610/42 M25	1	calculation	16

3.2 Osmosis

8 questions, 37 marks • multiple choice x6, calculation, short answer

Source	Q	Type	Marks
0610/21 N25	5	multiple choice	1
0610/23 N25	6	multiple choice	1
0610/22 J25	7	multiple choice	1
0610/23 J25	3	multiple choice	1
0610/23 J25	7	multiple choice	1
0610/42 J25	5	calculation	11
0610/62 J25	1	short answer	20
0610/22 M25	5	multiple choice	1

3.3 Active transport

6 questions, 21 marks • multiple choice x5, calculation

Source	Q	Type	Marks
0610/21 N25	6	multiple choice	1
0610/21 N25	18	multiple choice	1
0610/21 J25	4	multiple choice	1
0610/23 J25	19	multiple choice	1
0610/22 M25	6	multiple choice	1
0610/42 M25	1	calculation	16

4.1 Biological molecules

8 questions, 62 marks • multiple choice x5, calculation x3

Source	Q	Type	Marks
0610/22 N25	5	multiple choice	1
0610/63 N25	1	calculation	11
0610/21 J25	5	multiple choice	1
0610/21 J25	6	multiple choice	1
0610/22 J25	21	multiple choice	1
0610/61 J25	2	calculation	24
0610/63 J25	1	calculation	22
0610/22 M25	8	multiple choice	1

5.1 Enzymes

9 questions, 41 marks • multiple choice x6, calculation x3

Source	Q	Type	Marks
0610/21 N25	7	multiple choice	1
0610/22 N25	6	multiple choice	1
0610/42 N25	3	calculation	11
0610/21 J25	7	multiple choice	1
0610/22 J25	8	multiple choice	1
0610/23 J25	5	multiple choice	1
0610/42 J25	6	calculation	10
0610/62 J25	2	calculation	14
0610/22 M25	9	multiple choice	1

6.1 Photosynthesis

7 questions, 17 marks • multiple choice x6, short answer

Source	Q	Type	Marks
0610/21 N25	8	multiple choice	1
0610/23 N25	8	multiple choice	1
0610/23 N25	10	multiple choice	1
0610/43 N25	5	short answer	11
0610/22 J25	9	multiple choice	1
0610/23 J25	6	multiple choice	1
0610/22 M25	10	multiple choice	1

6.2 Leaf structure

6 questions, 17 marks • multiple choice x5, short answer

Source	Q	Type	Marks
0610/21 N25	9	multiple choice	1
0610/21 J25	8	multiple choice	1
0610/22 J25	10	multiple choice	1
0610/23 J25	9	multiple choice	1
0610/22 M25	11	multiple choice	1
0610/42 M25	5	short answer	12

7.1 Diet

5 questions, 5 marks • multiple choice x5

Source	Q	Type	Marks
0610/21 J25	9	multiple choice	1
0610/21 J25	10	multiple choice	1
0610/21 J25	11	multiple choice	1
0610/23 J25	10	multiple choice	1
0610/22 M25	12	multiple choice	1

7.2 Digestive system

2 questions, 29 marks • calculation x2

Source	Q	Type	Marks
0610/42 N25	1	calculation	14
0610/43 J25	1	calculation	15

7.3 Physical digestion

3 questions, 16 marks • multiple choice x2, calculation

Source	Q	Type	Marks
0610/42 N25	1	calculation	14
0610/22 J25	11	multiple choice	1
0610/22 M25	13	multiple choice	1

7.4 Chemical digestion

9 questions, 23 marks • multiple choice x8, calculation

Source	Q	Type	Marks
0610/21 N25	10	multiple choice	1
0610/21 N25	11	multiple choice	1
0610/22 N25	7	multiple choice	1
0610/22 N25	9	multiple choice	1
0610/23 N25	11	multiple choice	1
0610/22 J25	12	multiple choice	1
0610/23 J25	12	multiple choice	1
0610/43 J25	1	calculation	15
0610/22 M25	14	multiple choice	1

7.5 Absorption

4 questions, 4 marks • multiple choice x4

Source	Q	Type	Marks
0610/23 N25	12	multiple choice	1
0610/21 J25	12	multiple choice	1
0610/22 J25	13	multiple choice	1
0610/23 J25	11	multiple choice	1

8.1 Xylem and phloem

5 questions, 16 marks • multiple choice x4, short answer

Source	Q	Type	Marks
0610/21 N25	12	multiple choice	1
0610/23 N25	9	multiple choice	1
0610/22 J25	14	multiple choice	1
0610/23 J25	13	multiple choice	1
0610/42 M25	5	short answer	12

8.2 Water uptake

3 questions, 52 marks • calculation x2, multiple choice

Source	Q	Type	Marks
0610/22 N25	10	multiple choice	1
0610/43 N25	3	calculation	20
0610/61 N25	1	calculation	31

8.3 Transpiration

7 questions, 17 marks • multiple choice x6, calculation

Source	Q	Type	Marks
0610/22 N25	11	multiple choice	1
0610/22 N25	12	multiple choice	1
0610/23 N25	13	multiple choice	1
0610/41 N25	5	calculation	11
0610/21 J25	13	multiple choice	1
0610/22 J25	15	multiple choice	1
0610/22 M25	15	multiple choice	1

8.4 Translocation

5 questions, 5 marks • multiple choice x5

Source	Q	Type	Marks
0610/21 N25	13	multiple choice	1
0610/22 N25	13	multiple choice	1
0610/23 N25	14	multiple choice	1
0610/21 J25	14	multiple choice	1
0610/23 J25	14	multiple choice	1

9.1 Circulatory systems

4 questions, 18 marks • multiple choice x3, calculation

Source	Q	Type	Marks
0610/21 N25	15	multiple choice	1
0610/41 N25	2	calculation	15
0610/21 J25	15	multiple choice	1
0610/22 J25	16	multiple choice	1

9.2 Heart

5 questions, 18 marks • multiple choice x4, calculation

Source	Q	Type	Marks
0610/23 N25	16	multiple choice	1
0610/43 N25	4	calculation	14
0610/22 J25	17	multiple choice	1
0610/23 J25	15	multiple choice	1
0610/22 M25	16	multiple choice	1

9.3 Blood vessels

3 questions, 17 marks • multiple choice x2, calculation

Source	Q	Type	Marks
0610/23 N25	15	multiple choice	1
0610/41 N25	2	calculation	15
0610/22 J25	18	multiple choice	1

9.4 Blood

3 questions, 30 marks • calculation x2, multiple choice

Source	Q	Type	Marks
0610/41 N25	2	calculation	15
0610/23 J25	16	multiple choice	1
0610/42 J25	2	calculation	14

10.1 Diseases and immunity

10 questions, 22 marks • multiple choice x9, calculation

Source	Q	Type	Marks
0610/21 N25	14	multiple choice	1
0610/21 N25	16	multiple choice	1
0610/22 N25	15	multiple choice	1
0610/22 N25	22	multiple choice	1
0610/23 N25	17	multiple choice	1
0610/21 J25	16	multiple choice	1
0610/21 J25	17	multiple choice	1
0610/22 J25	19	multiple choice	1
0610/43 J25	5	calculation	13
0610/22 M25	17	multiple choice	1

11.1 Gas exchange in humans

8 questions, 27 marks • multiple choice x7, calculation

Source	Q	Type	Marks
0610/21 N25	17	multiple choice	1
0610/22 N25	16	multiple choice	1
0610/23 N25	18	multiple choice	1
0610/21 J25	18	multiple choice	1
0610/22 J25	6	multiple choice	1
0610/22 J25	20	multiple choice	1
0610/23 J25	18	multiple choice	1
0610/42 J25	1	calculation	20

12.1 Respiration

3 questions, 34 marks • calculation x2, multiple choice

Source	Q	Type	Marks
0610/62 N25	1	calculation	19
0610/63 N25	2	calculation	14
0610/21 J25	19	multiple choice	1

12.3 Anaerobic respiration

6 questions, 17 marks • multiple choice x5, calculation

Source	Q	Type	Marks
0610/21 N25	19	multiple choice	1
0610/22 N25	17	multiple choice	1
0610/42 N25	6	calculation	12
0610/22 J25	22	multiple choice	1
0610/23 J25	20	multiple choice	1
0610/22 M25	19	multiple choice	1

13.1 Excretion in humans

9 questions, 22 marks • multiple choice x8, calculation

Source	Q	Type	Marks
0610/21 N25	20	multiple choice	1
0610/22 N25	14	multiple choice	1
0610/23 N25	19	multiple choice	1
0610/21 J25	20	multiple choice	1
0610/22 J25	23	multiple choice	1
0610/23 J25	21	multiple choice	1
0610/23 J25	22	multiple choice	1
0610/41 J25	4	calculation	14
0610/22 M25	20	multiple choice	1

14.1 Coordination and response

5 questions, 18 marks • multiple choice x4, calculation

Source	Q	Type	Marks
0610/22 N25	18	multiple choice	1
0610/23 N25	21	multiple choice	1
0610/21 J25	21	multiple choice	1
0610/23 J25	23	multiple choice	1
0610/41 J25	2	calculation	14

14.2 Sense organs

7 questions, 20 marks • multiple choice x6, calculation

Source	Q	Type	Marks
0610/21 N25	21	multiple choice	1
0610/22 N25	19	multiple choice	1
0610/23 N25	20	multiple choice	1
0610/21 J25	22	multiple choice	1
0610/22 J25	24	multiple choice	1
0610/23 J25	24	multiple choice	1
0610/41 J25	2	calculation	14

14.3 Hormones

7 questions, 18 marks • multiple choice x6, calculation

Source	Q	Type	Marks
0610/22 N25	20	multiple choice	1
0610/23 N25	23	multiple choice	1
0610/23 N25	24	multiple choice	1
0610/21 J25	23	multiple choice	1
0610/22 J25	25	multiple choice	1
0610/23 J25	25	multiple choice	1
0610/43 J25	3	calculation	12

14.4 Homeostasis

5 questions, 26 marks • multiple choice x3, calculation, short answer

Source	Q	Type	Marks
0610/23 N25	22	multiple choice	1
0610/21 J25	24	multiple choice	1
0610/43 J25	3	calculation	12
0610/22 M25	22	multiple choice	1
0610/42 M25	2	short answer	11

14.5 Tropic responses

7 questions, 16 marks • multiple choice x6, calculation

Source	Q	Type	Marks
0610/22 N25	21	multiple choice	1
0610/23 N25	25	multiple choice	1
0610/21 J25	25	multiple choice	1
0610/22 J25	26	multiple choice	1
0610/23 J25	26	multiple choice	1
0610/41 J25	6	calculation	10
0610/22 M25	23	multiple choice	1

16.1 Asexual reproduction

5 questions, 5 marks • multiple choice x5

Source	Q	Type	Marks
0610/21 N25	23	multiple choice	1
0610/22 N25	23	multiple choice	1
0610/21 J25	27	multiple choice	1
0610/22 J25	28	multiple choice	1
0610/23 J25	27	multiple choice	1

16.3 Sexual reproduction in plants

8 questions, 41 marks • multiple choice x6, calculation x2

Source	Q	Type	Marks
0610/21 N25	24	multiple choice	1
0610/22 N25	24	multiple choice	1
0610/23 N25	27	multiple choice	1
0610/41 N25	4	calculation	18
0610/22 J25	29	multiple choice	1
0610/23 J25	28	multiple choice	1
0610/41 J25	3	calculation	17
0610/22 M25	25	multiple choice	1

16.4 Sexual reproduction in humans

6 questions, 22 marks • multiple choice x4, calculation x2

Source	Q	Type	Marks
0610/22 N25	26	multiple choice	1
0610/22 N25	27	multiple choice	1
0610/23 N25	28	multiple choice	1
0610/43 N25	6	calculation	8
0610/23 J25	8	multiple choice	1
0610/42 M25	4	calculation	10

16.5 Sex hormones in humans

8 questions, 8 marks • multiple choice x8

Source	Q	Type	Marks
0610/21 N25	25	multiple choice	1
0610/21 N25	26	multiple choice	1
0610/22 N25	25	multiple choice	1
0610/23 N25	29	multiple choice	1
0610/21 J25	28	multiple choice	1
0610/23 J25	29	multiple choice	1
0610/22 M25	27	multiple choice	1
0610/22 M25	28	multiple choice	1

17.1 Chromosomes, genes and proteins

6 questions, 21 marks • multiple choice x4, calculation x2

Source	Q	Type	Marks
0610/22 N25	30	multiple choice	1
0610/22 N25	31	multiple choice	1
0610/41 N25	6	calculation	5
0610/23 J25	4	multiple choice	1
0610/41 J25	5	calculation	12
0610/22 M25	29	multiple choice	1

17.2 Mitosis

4 questions, 4 marks • multiple choice x4

Source	Q	Type	Marks
0610/22 N25	33	multiple choice	1
0610/21 J25	29	multiple choice	1
0610/23 J25	31	multiple choice	1
0610/22 M25	31	multiple choice	1

17.3 Meiosis

3 questions, 19 marks • multiple choice x2, calculation

Source	Q	Type	Marks
0610/21 N25	28	multiple choice	1
0610/23 N25	33	multiple choice	1
0610/41 J25	3	calculation	17

17.4 Monohybrid inheritance

10 questions, 10 marks • multiple choice x10

Source	Q	Type	Marks
0610/21 N25	27	multiple choice	1
0610/21 N25	29	multiple choice	1
0610/22 N25	32	multiple choice	1
0610/23 N25	30	multiple choice	1
0610/23 N25	31	multiple choice	1
0610/23 N25	32	multiple choice	1
0610/21 J25	30	multiple choice	1
0610/22 J25	31	multiple choice	1
0610/23 J25	32	multiple choice	1
0610/22 M25	32	multiple choice	1

18.1 Variation

4 questions, 4 marks • multiple choice x4

Source	Q	Type	Marks
0610/21 N25	30	multiple choice	1
0610/22 J25	32	multiple choice	1
0610/23 J25	33	multiple choice	1
0610/22 M25	33	multiple choice	1

18.2 Adaptive features

6 questions, 15 marks • multiple choice x5, calculation

Source	Q	Type	Marks
0610/22 N25	34	multiple choice	1
0610/23 N25	34	multiple choice	1
0610/21 J25	32	multiple choice	1
0610/22 J25	34	multiple choice	1
0610/23 J25	34	multiple choice	1
0610/42 J25	4	calculation	10

18.3 Selection

6 questions, 22 marks • multiple choice x5, calculation

Source	Q	Type	Marks
0610/21 N25	22	multiple choice	1
0610/43 N25	2	calculation	17
0610/21 J25	33	multiple choice	1
0610/22 J25	27	multiple choice	1
0610/22 J25	33	multiple choice	1
0610/23 J25	35	multiple choice	1

19.1 Energy flow

8 questions, 33 marks • multiple choice x6, calculation, short answer

Source	Q	Type	Marks
0610/21 N25	32	multiple choice	1
0610/22 N25	35	multiple choice	1
0610/42 N25	4	calculation	14
0610/21 J25	34	multiple choice	1
0610/22 J25	35	multiple choice	1
0610/23 J25	36	multiple choice	1
0610/41 J25	1	short answer	13
0610/22 M25	34	multiple choice	1

19.2 Food chains and food webs

6 questions, 19 marks • multiple choice x5, calculation

Source	Q	Type	Marks
0610/21 N25	33	multiple choice	1
0610/23 N25	38	multiple choice	1
0610/42 N25	4	calculation	14
0610/21 J25	35	multiple choice	1
0610/22 J25	36	multiple choice	1
0610/22 M25	36	multiple choice	1

19.3 Nutrient cycles

9 questions, 27 marks • multiple choice x8, calculation

Source	Q	Type	Marks
0610/21 N25	34	multiple choice	1
0610/21 N25	35	multiple choice	1
0610/22 N25	36	multiple choice	1
0610/23 N25	35	multiple choice	1
0610/23 N25	36	multiple choice	1
0610/41 N25	3	calculation	19
0610/22 J25	37	multiple choice	1
0610/23 J25	37	multiple choice	1
0610/22 M25	35	multiple choice	1

19.4 Populations

8 questions, 8 marks • multiple choice x8

Source	Q	Type	Marks
0610/21 N25	36	multiple choice	1
0610/22 N25	37	multiple choice	1
0610/23 N25	37	multiple choice	1
0610/21 J25	37	multiple choice	1
0610/22 J25	38	multiple choice	1
0610/23 J25	38	multiple choice	1
0610/22 M25	37	multiple choice	1
0610/22 M25	38	multiple choice	1

20.1 Food supply

5 questions, 17 marks • multiple choice x4, calculation

Source	Q	Type	Marks
0610/21 N25	38	multiple choice	1
0610/22 N25	38	multiple choice	1
0610/42 N25	5	calculation	13
0610/22 J25	39	multiple choice	1
0610/23 J25	39	multiple choice	1

20.2 Habitat destruction

1 question, 13 marks • calculation

Source	Q	Type	Marks
0610/43 J25	6	calculation	13

20.3 Pollution

6 questions, 19 marks • multiple choice x5, calculation

Source	Q	Type	Marks
0610/21 N25	37	multiple choice	1
0610/22 N25	39	multiple choice	1
0610/23 N25	39	multiple choice	1
0610/21 J25	39	multiple choice	1
0610/22 M25	39	multiple choice	1
0610/42 M25	6	calculation	14

20.4 Conservation

2 questions, 2 marks • multiple choice x2

Source	Q	Type	Marks
0610/21 N25	31	multiple choice	1
0610/21 J25	38	multiple choice	1

21.2 Biotechnology

3 questions, 15 marks • multiple choice x2, calculation

Source	Q	Type	Marks
0610/21 N25	39	multiple choice	1
0610/22 J25	40	multiple choice	1
0610/43 J25	5	calculation	13

21.3 Genetic modification

6 questions, 20 marks • multiple choice x5, calculation

Source	Q	Type	Marks
0610/21 N25	40	multiple choice	1
0610/23 N25	40	multiple choice	1
0610/21 J25	40	multiple choice	1
0610/23 J25	40	multiple choice	1
0610/42 J25	3	calculation	15
0610/22 M25	40	multiple choice	1