

**Unit Code:** H422/02

**Qual Name:** A level Biology B

**Qual Title:** Scientific literacy in biology

Question Set	Q. No	Total Marks	AO	Spec Ref.	Topic	Question Subject, If required	Additional Notes/Comments
1	1ai	1	AO1	4.3.1a	Photosynthesis, food production and management of the environment	This question is about the process of photosynthesis in cells and food production based around the Advanced Notice Article TURBOCHARGED PHOTOSYNTHESIS?	Chloroplast structure
1	1aii	2	AO1 AO2	4.3.1a, 2.1.1a(ii)	Photosynthesis, food production and management of the environment	This question is about the process of photosynthesis in cells and food production based around the Advanced Notice Article TURBOCHARGED PHOTOSYNTHESIS?	Photosynthetic structures- prokaryotes and eukaryotic cells
1	1aiii	2	AO1 AO2	4.3.1a	Photosynthesis, food production and management of the environment	This question is about the process of photosynthesis in cells and food production based around the Advanced Notice Article TURBOCHARGED PHOTOSYNTHESIS?	Location of Rubisco
1	1aiv	3	AO2	4.3.1c	Photosynthesis, food production and management of the environment	This question is about the process of photosynthesis in cells and food production based around the Advanced Notice Article TURBOCHARGED PHOTOSYNTHESIS?	Reactions of Rubisco
1	1bi	1	AO2	4.3.1c, 1.1.2b	Photosynthesis, food production and management of the environment	This question is about the process of photosynthesis in cells and food production based around the Advanced Notice Article TURBOCHARGED PHOTOSYNTHESIS?	Analysis of table data on carboxylase activity

1	1bii	4	AO2	4.3.1c, 1.1.2b, 1.1.3a, 1.1.3d	Photosynthesis, food production and management of the environment	This question is about the process of photosynthesis in cells and food production based around the Advanced Notice Article TURBOCHARGED PHOTOSYNTHESIS?	Plotting a graph from data Maths skills M1.10, M3.2
1	1biii	3	AO3	4.3.1c, 1.1.2b,1.1.4a	Photosynthesis, food production and management of the environment	This question is about the process of photosynthesis in cells and food production based around the Advanced Notice Article TURBOCHARGED PHOTOSYNTHESIS?	Analysis from data. Maths skills M0.1, M1.10
1	1biv	2	AO3	4.3.1c, 1.1.3b,1.1.4a	Photosynthesis, food production and management of the environment	This question is about the process of photosynthesis in cells and food production based around the Advanced Notice Article TURBOCHARGED PHOTOSYNTHESIS?	Evaluating conclusions. Maths skills M1.10
1	1c*	6	AO3	4.3.1l	Photosynthesis, food production and management of the environment	This question is about the process of photosynthesis in cells and food production based around the Advanced Notice Article TURBOCHARGED PHOTOSYNTHESIS?	LoR about growing supercrops.
2	1ai	1	AO1	4.2.1c	Fertility and assisted reproduction	This question is about the female reproduction and effects of ageing.	oogenesis
2	1aai	4	AO1	3.1.1bi, 3.1.2b, 4.2.1c	Cell division	This question is about the female reproduction and effects of ageing.	Types of cell division
2	1bi	2	AO1	4.2.1c, 4.2.1e	Fertility and assisted reproduction	This question is about the female reproduction and effects of ageing.	Changes in oestrogen levels with age
2	1bii	3	AO3	4.2.1c, 1.1.3a	Fertility and assisted reproduction	This question is about the female reproduction and effects of ageing.	Changes in cycle and oestrogen levels with age
2	1ci	4	AO2	4.2.2a, 1.1.3a,di	The effects of ageing on reproductive system	This question is about the female reproduction and effects of ageing.	Effect of ageing on follicles. Maths skills M1.7 by analysing data form graph

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2	1cii	1	AO1	4.2.2a	The effects of ageing on reproductive system	This question is about the female reproduction and effects of ageing.	The menopause
2	1ciii	1	AO1	4.2.2a	The effects of ageing on reproductive system	This question is about the female reproduction and effects of ageing.	The menopause
3	1ai	1	AO1	5.3.1a	Principles and importance of homeostasis	This question is about nervous control and homeostasis with links to gene technology and cancer.	Homeostasis
3	1aaii	4	AO1	5.3.1b	Principles and importance of homeostasis	This question is about nervous control and homeostasis with links to gene technology and cancer.	Gap-fill style question on control of heart rate
3	1aiii	1	AO3	5.2.1d	Nervous system and identification and consequences of damage	This question is about nervous control and homeostasis with links to gene technology and cancer.	Pain and heart rate
3	1bi	3	AO2	5.2.1d	Nervous system and identification and consequences of damage	This question is about nervous control and homeostasis with links to gene technology and cancer.	Nerve damage and pain sensors
3	1bii	2	AO2	5.2.1d	Nervous system and identification and consequences of damage	This question is about nervous control and homeostasis with links to gene technology and cancer.	Drugs for treating pain
3	1ci	2	AO2	5.1.3d, 5.1.3e, 1.1.1a	Gene technologies	This question is about nervous control and homeostasis with links to gene technology and cancer.	Single nucleotide polymorphisms
3	1cii	2	AO2	3.3.1g, 3.3.1h	Cellular basis of cancer and treatments	This question is about nervous control and homeostasis with links to gene technology and cancer.	SNPs and BRCA genes
4	1ai	3	AO1	2.1.4ci	Nucleic acids	This question is about structure of DNA and mutations leading to cancer.	Structure of DNA
4	1aii	2	AO2	2.1.4ci	Nucleic acids	This question is about structure of DNA and mutations leading to cancer.	Percentage base-pairing in DNA. Simple calculation Maths skills M0.3
4	1b	2	AO1	2.1.4d	Nucleic acids	This question is about structure of DNA and mutations leading to cancer.	Hydrogen bonding and semi-conservative replication

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4	1c	3	AO2	3.3.1b,c,d	Cellular basis of cancer	This question is about structure of DNA and mutations leading to cancer.	DNA mutation and development of cancer
5	1ai	1	AO1	3.2.3a	Controlling communicable disease	This question is about controlling communicable disease with regards to vaccines and herd immunity.	Types of vaccine
5	1aii	1	AO2	3.2.3a	Controlling communicable disease	This question is about controlling communicable disease with regards to vaccines and herd immunity.	How vaccines work
5	1aiii	2	AO2	3.2.3a	Controlling communicable disease	This question is about controlling communicable disease with regards to vaccines and herd immunity.	How vaccines work
5	1b*	6	AO3	3.2.3b,3.2.3d,3.2.1e	Controlling communicable disease	This question is about controlling communicable disease with regards to vaccines and herd immunity.	LoR question about herd immunity and preventing epidemics
6	1ai	2	AO2	4.1.2h, 1.1.3a,b	Metabolism and exercise	This question is about haemoglobin including dissociation curves linked to water potential in erythrocytes.	Percentage increase calculation from graphical data on haemoglobin dissociation curves. Maths skills M0.3 M3.1
6	1aii	3	AO2	4.1.2i, 1.1.3d, 1.1.4a	Metabolism and exercise	This question is about haemoglobin including dissociation curves linked to water potential in erythrocytes.	Analysis from data. Maths skills M1.3 M3.1
6	1bi	1	AO2	2.1.2g	Water and its importance in plants and animals	This question is about haemoglobin including dissociation curves linked to water potential in erythrocytes.	Water potential and erythrocytes
6	1bii	2	AO3	2.1.2h, 1.1.4e	Water and its importance in plants and animals	This question is about haemoglobin including dissociation curves linked to water potential in erythrocytes.	Improvement of experimental procedures (water potential)
7	1ai	5	AO1	2.1.1g	Cells and microscopy	This question is about ultrastructure of an animal cell and organelles	Ultrastructure of animal cell. Identifying organelles in diagram
7	1aii	3	AO2	2.1.1g	Cells and microscopy	This question is about ultrastructure of an animal cell and organelles	Functions of organelles

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7	1bi	6	AO3	2.1.1o, 1.1.3a	Cells and microscopy	This question is about ultrastructure of an animal cell and organelles	Interrelationships of organelles in protein production. Analysis of data.
7	1bii	1	AO2	2.1.1o, 1.1.4a	Cells and microscopy	This question is about ultrastructure of an animal cell and organelles	Estimate calculation using graphical data on organelles. Maths skills tested M0.4, M1.3
7	1c	2	AO2	2.1.1o, 1.1.3a	Cells and microscopy	This question is about ultrastructure of an animal cell and organelles	Protein formation and cancer
8	1ai	2	AO1	5.2.1(c)	The nervous system and identification and consequences of damage	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article SPINAL CORD INJURIES: HOW COULD STEM CELLS HELP?	
8	1aii	2	AO2	5.2.1(c)(g)	The nervous system and identification and consequences of damage	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article SPINAL CORD INJURIES: HOW COULD STEM CELLS HELP?	Structure of neurones
8	1aiii	2	AO1	5.2.1(c)	The nervous system and identification and consequences of damage	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article SPINAL CORD INJURIES: HOW COULD STEM CELLS HELP?	Spinal cord injury and neurones
8	1aiiii	2	AO1	5.2.1(c)	The nervous system and identification and consequences of damage	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article SPINAL CORD INJURIES: HOW COULD STEM CELLS HELP?	Role of myelin sheath
8	1aiv	1	AO2	5.2.1(c)	The nervous system and identification and consequences of damage	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article SPINAL CORD INJURIES: HOW COULD STEM CELLS HELP?	Cells of peripheral nervous system

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8	1bi	1	AO1	5.2.1(g)	The nervous system and identification and consequences of damage	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article SPINAL CORD INJURIES: HOW COULD STEM CELLS HELP?	Imaging techniques
8	1bii	3	AO1	5.2.1(g)	The nervous system and identification and consequences of damage	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article SPINAL CORD INJURIES: HOW COULD STEM CELLS HELP?	Imaging techniques
8	1c	3	AO2	3.1.1(e)(i)	The developing cell	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article SPINAL CORD INJURIES: HOW COULD STEM CELLS HELP?	Stem cells and clinical trials
8	1d*	6	AO3	3.1.1(e)(ii), 5.3.3(i)	The developing cell	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article SPINAL CORD INJURIES: HOW COULD STEM CELLS HELP?	LoR about the ethics of stem cell use
9	1a	1	AO2	2.2.4(e)(ii)	Transport systems in plants	This question is about transpiration investigations and genetic basis of drought resistance in plants.	Transpiration experiments. Maths skills M0.3
9	1bi	2	AO2	1.1.1(b), 2.2.4(e)(ii)	Transport systems in plants	This question is about transpiration investigations and genetic basis of drought resistance in plants.	Transpiration experiments and control variables
9	1bii	3	AO3	2.2.4(e)(ii)	Transport systems in plants	This question is about transpiration investigations and genetic basis of drought resistance in plants.	Transpiration experiments analysis of data
9	1ci	3	AO2	1.1.3(d), 2.2.4(e)(ii)	Transport systems in plants	This question is about transpiration investigations and genetic basis of drought resistance in plants.	Plotting graph from transpiration data. Maths skills M3.1, M3.2

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9	1cii	3	AO2	1.1.3(c),(d), 2.2.4(e)(ii)	Transport systems in plants	This question is about transpiration investigations and genetic basis of drought resistance in plants.	Transpiration rates. Maths skills M0.2, M3.5
9	1di	2	AO2	5.1.1(c)	Patterns of inheritance	This question is about transpiration investigations and genetic basis of drought resistance in plants.	Genetic basis of drought resistance
9	1dii	2	AO2	5.1.2(f)	Populations, genetics and epigenetics	This question is about transpiration investigations and genetic basis of drought resistance in plants.	Genetic basis of drought resistance
9	1diii	2	AO2	5.1.3(f)	Gene technologies	This question is about transpiration investigations and genetic basis of drought resistance in plants.	Genetic engineering to incorporate plasmids
10	1ai	2	AO1	4.2.2(c)	Effects of ageing on reproductive system	This question is about ageing on male and female reproductive systems and HRT.	Effect of ageing on male reproductive system
10	1aii	1	AO1	4.2.1(j), 4.2.2(c)	Effects of ageing on reproductive system and fertility and assisted reproduction	This question is about ageing on male and female reproductive systems and HRT.	Male infertility
10	1bi	3	AO3	4.2.2(b)	Effects of ageing on reproductive system	This question is about ageing on male and female reproductive systems and HRT.	HRT
10	1bii*	6	AO3	4.2.2(b)	Effects of ageing on reproductive system	This question is about ageing on male and female reproductive systems and HRT.	LoR about the risks of HRT
11	1ai	1	AO1	3.2.1(b)	Pathogenic microorganisms	This question is about disease-causing organisms in context of TB and HIV and blood clotting.	Cause of TB
11	1aii	2	AO2	3.2.1(b)	Pathogenic microorganisms	This question is about disease-causing organisms in context of TB and HIV and blood clotting.	Spread of TB
11	1aiii	2	AO2	3.2.1(b)	Pathogenic microorganisms	This question is about disease-causing organisms in context of TB and HIV and blood clotting.	TB and antibiotics

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11	1bi	1	AO1	3.2.1(c)	Pathogenic microorganisms	This question is about disease-causing organisms in context of TB and HIV and blood clotting.	Structure of HIV
11	1bii	1	AO1	3.2.1(c)	Pathogenic microorganisms	This question is about disease-causing organisms in context of TB and HIV and blood clotting.	Structure of HIV
11	1biii	2	AO1	3.2.1(c)	Pathogenic microorganisms	This question is about disease-causing organisms in context of TB and HIV and blood clotting.	Structure and function of HIV components
11	1ci	2	AO2	3.2.1(b)	Pathogenic microorganisms	This question is about disease-causing organisms in context of TB and HIV and blood clotting.	HIV and AIDS
11	1cii	2	AO2	3.2.1(b)	Pathogenic microorganisms	This question is about disease-causing organisms in context of TB and HIV and blood clotting.	HIV and AIDS
11	1d	4	AO1	2.1.3(c),(e)(i)	Proteins and enzymes	This question is about disease-causing organisms in context of TB and HIV and blood clotting.	Gap-fill style question about blood clotting process
12	1ai	1	AO2	4.3.2(a)	The impact of population increase	This question is about factors that affect birth rate and death rates in populations including global food security.	Changes in population, birth rates and death rates
12	1aaii	3	AO2	4.3.2(a)	The impact of population increase	This question is about factors that affect birth rate and death rates in populations including global food security.	Increase in population calculation. Maths skills M0.2 M3.5
12	1aiii	3	AO2	4.3.2(a)	The impact of population increase	This question is about factors that affect birth rate and death rates in populations including global food security.	Changes in population, birth rates and death rates
12	1bi	2	AO1	4.4.1(e)	Plant reproduction	This question is about factors that affect birth rate and death rates in populations including global food security.	Cereals as staple foods



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12	1bii	2	AO3	4.3.2(a), 4.4.1(e)	The impact of population increase and plant reproduction	This question is about factors that affect birth rate and death rates in populations including global food security.	Explaining changes in death rates
12	1c	5	AO3	4.3.2(b),(d)	The impact of population increase	This question is about factors that affect birth rate and death rates in populations including global food security.	Food security
13	1ai	1	AO1	5.3.3(e)	Kidney functions and malfunctions	This question is about the kidney function including EPO production and its malfunctions.	EPO production
13	1aaii	1	AO1	5.3.3(e)	Kidney functions and malfunctions	This question is about the kidney function including EPO production and its malfunctions.	Factors effecting EPO production
13	1bi	2	AO2	4.1.2(e)	Metabolism and exercise	This question is about the kidney function including EPO production and its malfunctions.	Blood doping and rhEPO
13	1bii	2	AO2	4.1.2(e)	Metabolism and exercise	This question is about the kidney function including EPO production and its malfunctions.	Blood doping and rhEPO
13	1ci	1	AO2	5.3.3(e)	Kidney functions and malfunctions	This question is about the kidney function including EPO production and its malfunctions.	Kidney disease and EPO
13	1cii	2	AO2	5.3.3(f)	Kidney functions and malfunctions	This question is about the kidney function including EPO production and its malfunctions.	Kidney disease and anemia
13	1ciii	3	AO1	5.3.3(e),(f)	Kidney functions and malfunctions	This question is about the kidney function including EPO production and its malfunctions.	Kidney disease and CVD
13	1civ	2	AO2 AO3	5.3.3(e)	Kidney functions and malfunctions	This question is about the kidney function including EPO production and its malfunctions.	Using graphical data to calculate and comment. Maths skills M0.4, M1.3
13	1d	3	AO1 AO3	5.3.3(i)	Kidney functions and malfunctions	This question is about the kidney function including EPO production and its malfunctions.	Kidney transplants and rejection

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14	1ai	2	AO1	5.1.1(a)	Patterns of inheritance	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article 'Learning from Iceland's model for genetic research'	Genetic terms
14	1aii	2	AO2	5.1.2(d)	Population genetics and epigenetics	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article 'Learning from Iceland's model for genetic research'	Factors that contribute to genetic diversity.
14	1aiii	2	AO2	3.1.3(g), 5.1.2(d)	Population genetics and epigenetics/ development of species	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article 'Learning from Iceland's model for genetic research'	Factors that contribute to genetic diversity.
14	1b	4	AO2	2.1.1(f)	Cells and microscopy	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article 'Learning from Iceland's model for genetic research'	Flow cytometry
14	1c	3	AO1	2.1.3(b),5.1.1(b), 5.1.2(b)	Patterns of inheritance/ population genetics and epigenetics/proteins and enzymes	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article 'Learning from Iceland's model for genetic research'	Gene mutation and sickle cell anaemia
14	1d	4	AO3	5.1.1(g)	Patterns of inheritance	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article 'Learning from Iceland's model for genetic research'	Identifying genetic disease and pedigree analysis (genetic counsellors and ethics)

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14	1e	4	AO1	2.1.4(g)	Nucleic acids	This question is about the nervous system particularly spinal cord and stem cell use based around the Advanced Notice Article 'Learning from Iceland's model for genetic research'	Protein synthesis
15	1ai	1	AO1	2.1.3(a)(i)	Cells and chemicals for life	This question is about peptides (AMPs) and includes chromatography. The question also includes links with allele frequencies in populations.	Peptide bonds between amino acids
15	1aii	1	AO1	2.1.2(d), 2.1.3(a)(i)	Cells and chemicals for life	This question is about peptides (AMPs) and includes chromatography. The question also includes links with allele frequencies in populations.	Formation of dipeptide
15	1bi	2	AO2	2.1.3(a)(ii)	Cells and chemicals for life	This question is about peptides (AMPs) and includes chromatography. The question also includes links with allele frequencies in populations.	Amino acid chromatography
15	1bii	2	AO2 AO3	2.1.3(a)(ii)	Cells and chemicals for life	This question is about peptides (AMPs) and includes chromatography. The question also includes links with allele frequencies in populations.	Amino acid chromatography. Maths skills M0.3, M2.3, M2.4
15	1c*	6	AO2	3.2.2(a),(b)	Immune system	This question is about peptides (AMPs) and includes chromatography. The question also includes links with allele frequencies in populations.	LoR about primary non-specific defences against pathogens
15	1di	2	AO2	4.2.1(g)	Fertility and assisted reproduction	This question is about peptides (AMPs) and includes chromatography. The question also includes links with allele frequencies in populations.	Male infertility and fertilisation

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15	1dii	2	AO2	5.1.2(c)	Population genetics and epigenetics	This question is about peptides (AMPs) and includes chromatography. The question also includes links with allele frequencies in populations.	Allele frequencies and Hardy-Weinberg equation. Maths skills M1.1, M2.3
15	1diii	1	AO3	5.1.2(a)	Population genetics and epigenetics	This question is about peptides (AMPs) and includes chromatography. The question also includes links with allele frequencies in populations.	Allele frequencies
16	1a	3	AO2	2.1.3(b)	Proteins and enzymes	This question is about enzyme structure and function and the cellular basis for cancer .	Protease enzyme structure and function
16	1bi	1	AO2	3.3.1(b)	Cellular basis of cancer and treatment	This question is about enzyme structure and function and the cellular basis for cancer .	Developing null hypothesis from data about tumours. Maths skills M1.9
16	1bii	1	AO2	3.3.1(b)	Cellular basis of cancer and treatment	This question is about enzyme structure and function and the cellular basis for cancer .	Conclusions about data (probability and chance). Maths skills M1.9
16	1biii	3	AO3	2.1.3(b), 3.3.1(a)	Cellular basis of cancer and treatment	This question is about enzyme structure and function and the cellular basis for cancer .	Evaluating breast cancer data
16	1c	2	AO2	2.1.3(f)	Proteins and enzymes	This question is about enzyme structure and function and the cellular basis for cancer .	Types of enzyme inhibitor
17	1a	3	AO2	4.3.1(c)	Photosynthesis, food production and populations	This question is about investigations relating to the Calvin cycle and control of flowering in plants .	Calvin cycle investigations
17	1bi	1	AO1	4.3.1(c)	Photosynthesis, food production and populations	This question is about investigations relating to the Calvin cycle and control of flowering in plants .	Calvin cycle investigations

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17	1bii	3	AO3	4.3.1(c), (e)	Photosynthesis, food production and populations	This question is about investigations relating to the Calvin cycle and control of flowering in plants .	Calvin cycle investigations
17	1c	2	AO3	4.3.1(c)	Photosynthesis, food production and populations	This question is about investigations relating to the Calvin cycle and control of flowering in plants .	Calvin cycle
17	1di	2	AO2	4.3.1(g)(i),(ii)	Photosynthesis, food production and populations	This question is about investigations relating to the Calvin cycle and control of flowering in plants .	Compensation point and crop production. Calculation from data. Maths skills M1.1, M3.1, M2.3
17	1dii	1	AO2	4.3.1(g)(i),(ii)	Photosynthesis, food production and populations	This question is about investigations relating to the Calvin cycle and control of flowering in plants .	Compensation point and crop production
17	1e	2	AO2	4.4.1(a)	Plant reproduction	This question is about investigations relating to the Calvin cycle and control of flowering in plants .	Control of flowering
17	1f	3	AO2	4.4.1(a)	Plant reproduction	This question is about investigations relating to the Calvin cycle and control of flowering in plants .	Control of flowering
18	1ai	4	AO1	5.2.2(a), 5.2.3(b)(i)	Monitoring visual function and effect of ageing on nervous system	This question is about visual function and malfunctions of the eye due to ageing or genetics	Degenerative diseases fo the eye
18	1aaii	2	AO2	5.2.3(b)(i)	Effect of ageing on nervous system	This question is about visual function and malfunctions of the eye due to ageing or genetics	Degenerative diseases fo the eye and treatment
18	1bi	1	AO1	5.2.2(c)	Monitoring visual function	This question is about visual function and malfunctions of the eye due to ageing or genetics	Photoreceptors
18	1bii	2	AO1	5.2.2(c)	Monitoring visual function	This question is about visual function and malfunctions of the eye due to ageing or genetics	Function of rod cells

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18	1c	2	AO1	5.1.1(d)	Patterns of inheritance	This question is about visual function and malfunctions of the eye due to ageing or genetics	Colour blindness and sex-linked inheritance
19	1ai	1	AO1	3.1.2(a)	The developing individual: meiosis, growth and development	This question is about meiosis, chromosome mutation and fetal development	Meiosis
19	1aii	1	AO1	5.1.1(f)	Patterns of inheritance	This question is about meiosis, chromosome mutation and fetal development	Meiosis and chromosome mutations
19	1aiii	1	AO1	5.1.1(f)	Patterns of inheritance	This question is about meiosis, chromosome mutation and fetal development	Chromosome mutations and syndromes
19	1aiv	1	AO2	5.1.1(f)	Patterns of inheritance	This question is about meiosis, chromosome mutation and fetal development	Chromosome mutations and cancer
19	1b*	6	AO1 AO2	3.1.2(d),(f)	The developing individual: meiosis, growth and development	This question is about meiosis, chromosome mutation and fetal development	LoR question about chromosome mutations and cancer
20	1a	1	AO1	4.4.1(b)	Plant reproduction	This question is about plant reproduction and patterns of inheritance	Adaptations for wind pollination
20	1b	3	AO1	4.4.1(c)	Plant reproduction	This question is about plant reproduction and patterns of inheritance	Formation of seed embryo and endosperm
20	1ci	2	AO3	5.1.1(c)	Patterns of inheritance	This question is about plant reproduction and patterns of inheritance	Patterns of inheritance and Mendelian genetics
20	1cii	2	AO3	5.1.1(c)	Patterns of inheritance	This question is about plant reproduction and patterns of inheritance	Patterns of inheritance and phenotypic ratios
20	1ciii	3	AO3	5.1.1(c)	Patterns of inheritance	This question is about plant reproduction and patterns of inheritance	Using chi-squared. Maths skills M1.9
20	1civ	1	AO3	5.1.1(c)	Patterns of inheritance	This question is about plant reproduction and patterns of inheritance	Probability tables and chi-squared. Maths skills M1.9

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20	1cv	2	AO3	5.1.1(d)	Patterns of inheritance	This question is about plant reproduction and patterns of inheritance	Probability tables and chi-squared