## Unit Code H020/02 Qual Name AS Level Biology A Qual Title Depth in biology

Question Set	Q. No	Total Marks	АО	Spec Ref.	Topic	Question Subject, If required	Additional Notes/Comments
1	1ai	1	1	2.1.1a	Cell structure	This is a synoptic question on microscopy, meiosis and stem cells	
1	1aii	1	1	2.1.1a	Cell structure	This is a synoptic question on microscopy, meiosis and stem cells	
1	1bi	1	2	2.1.1a, 2.1.6g	Cell structure / Cell division, cell diversity and cellular organisation	This is a synoptic question on microscopy, meiosis and stem cells	
1	1bii	2		2.1.1a, 2.1.6g	Cell structure / Cell division, cell diversity and cellular organisation	This is a synoptic question on microscopy, meiosis and stem cells	
1	1biii	3	2	1biii	Cell division, cell diversity and cellular organisation	This is a synoptic question on microscopy, meiosis and stem cells	
1	1c	4	2 & 3	2.1.6m	Cell division, cell diversity and cellular organisation	This is a synoptic question on microscopy, meiosis and stem cells	
2	1a	2	1	3.1.3bii, 3.1.3biii	Transport in plants	This question is about vascular tissues in plants testing practical skills and plant adaptations to water availability.	
2	1b	2	2	3.1.3bi	Transport in plants	This question is about vascular tissues in plants testing practical skills and plant adaptations to water availablility.	
2	1c	3	2	3.1.3bi	Transport in plants	This question is about vascular tissues in plants testing practical skills and plant adaptations to water availablility.	
3	1a	2	3	3.1.1g	Exchange surfaces	This question is about gaseous exchange in bony fish, insects and lungs of mammals	
3	1bi	2	2 & 3	3.1.1f	Exchange surfaces	This question is about gaseous exchange in bony fish, insects and lungs of mammals	
3	1bii	1	1	3.1.1g	Exchange surfaces	This question is about gaseous exchange in bony fish, insects and lungs of mammals	
3	1biii	2	1	3.1.1c, 3.1.1g	Exchange surfaces	This question is about gaseous exchange in bony fish, insects and lungs of mammals	
3	1c	6	1 & 2	3.1.1b	Exchange surfaces	This question is about gaseous exchange in bony fish, insects and lungs of mammals	

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4	1a	4	1 & 2	4.1.1f	Communicable diseases, disease prevention and the immune system	This question is about the immune response and vaccination and the control of communicable disease	
4	1b	3	1	4.1.1g	Communicable diseases, disease prevention and the immune system	This question is about the immune response and vaccination and the control of communicable disease	
4	1c	6	2	4.1.1b	Communicable diseases, disease prevention and the immune system	This question is about the immune response and vaccination and the control of communicable disease	
5	1ai	2	2	1.1.3b, 4.2.1bi	Biodiversity / Development of practical skills in biology - Analysis	This question is about a sampling experiment on biodiversity with data analysis and evaluation	
5	1aii	2	2	1.1.3di, 4.2.1a	Biodiversity / Development of practical skills in biology - Analysis	This question is about a sampling experiment on biodiversity with data analysis and evaluation	
5	1aiii	1	3	4.2.1f	Biodiversity	This question is about a sampling experiment on biodiversity with data analysis and evaluation	
5	1aiv	2	3	1.1.4a, 4.2.1f	Biodiversity / Development of practical skills in biology - Evaluation	This question is about a sampling experiment on biodiversity with data analysis and evaluation	
5	1av	1	3	1.1.1b, 4.2.1bii	Biodiversity / Development of practical skills in biology - Planning	This question is about a sampling experiment on biodiversity with data analysis and evaluation	
5	1b	2	3	1.1.4a, 4.2.1a	Biodiversity / Development of practical skills in biology - Evaluation	This question is about a sampling experiment on biodiversity with data analysis and evaluation	
5	1ci	1	1	4.2.1a	Biodiversity	This question is about a sampling experiment on biodiversity with data analysis and evaluation	
5	1cii	1	1	4.2.1a, 4.2.2g, 4.2.2h	Biodiversity / Classification and evolution	This question is about a sampling experiment on biodiversity with data analysis and evaluation	
6	1ai	3	3	1.1.3di, 2.1.2r	Biological molecules / Development of practical skills in biology - Analysis	This question tests graphing skills in the context of the Benedict's test and a colorimeter and compares different biological molecules	
6	1aii	2	2	2.1.2r, 1.1.3di	Biological molecules / Development of practical skills in biology - Analysis	This question tests graphing skills in the context of the Benedict's test and a colorimeter and compares different biological molecules	
6	1bi	4	3	1.1.1a, 2.1.2q, 2.1.2r	Biological molecules / Development of practical skills in biology - Planning	This question tests graphing skills in the context of the Benedict's test and a colorimeter and compares different biological molecules	
6	1bii	1	3	1.1.1c, 2.1.2q	Biological molecules / Development of practical skills in biology - Planning	This question tests graphing skills in the context of the Benedict's test and a colorimeter and compares different biological molecules	
6	1ci	2	2	2.1.2c, 2.1.2d	Biological molecules	This question tests graphing skills in the context of the Benedict's test and a colorimeter and compares different biological molecules	

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6	1cii	1	1	2.1.2d	Biological molecules	This question tests graphing skills in the context of the Benedict's test and a colorimeter and compares different biological molecules	
7	1ai	1	1	2.1.2k	Biological molecules	This is a synoptic question set in the context of proteins and tests aspects of protein structure, genetic code, types of protein, data analysis and evaluation and the technique of chromatography	
7	1aii	1	1	2.1.2 b, 2.1.2 l	Biological molecules	This is a synoptic question set in the context of proteins and tests aspects of protein structure, genetic code, types of protein, data analysis and evaluation and the technique of chromatography	
7	1bi	2	1	2.1.3g	Nucleotides and nucleic acids	This is a synoptic question set in the context of proteins and tests aspects of protein structure, genetic code, types of protein, data analysis and evaluation and the technique of chromatography	
7	1bii	2	2	2.1.3f	Nucleotides and nucleic acids	This is a synoptic question set in the context of proteins and tests aspects of protein structure, genetic code, types of protein, data analysis and evaluation and the technique of chromatography	
7	1biii	6	1	2.1.2n, 2.1.2o	Biological molecules	This is a synoptic question set in the context of proteins and tests aspects of protein structure, genetic code, types of protein, data analysis and evaluation and the technique of chromatography	
7	1biv	2	2	1.1.3dii	Development of practical skills in biology - Analysis	This is a synoptic question set in the context of proteins and tests aspects of protein structure, genetic code, types of protein, data analysis and evaluation and the technique of chromatography	
7	1bv	2	3	4.1.1a, 4.1.1k	Communicable diseases, disease prevention and the immune system	This is a synoptic question set in the context of proteins and tests aspects of protein structure, genetic code, types of protein, data analysis and evaluation and the technique of chromatography	
7	1ci	4	3	1.1.2a, 2.1.2si	Biological molecules / Development of practical skills in biology - Implementing	This is a synoptic question set in the context of proteins and tests aspects of protein structure, genetic code, types of protein, data analysis and evaluation and the technique of chromatography	
7	1cii	2	2	1.1.3a, 1.1.3b, 1.1.3c, 2.1.2sii	Biological molecules / Development of practical skills in biology - Analysis	This is a synoptic question set in the context of proteins and tests aspects of protein structure, genetic code, types of protein, data analysis and evaluation and the technique of chromatography	
8	1ai	1	2	3.1.2h	Transport in animals	This question is about the heart	
8	1aii	3	2	3.1.2h	Transport in animals	This question is about the heart	
8	1aiii	2	2	3.1.2g	Transport in animals	This question is about the heart	

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8	1bi	1	3	3.1.2eii	Transport in animals	This question is about the heart	
8	1bii	1	1	3.1.2eii	Transport in animals	This question is about the heart	
8	1c	6	1 & 2	3.1.2f	Transport in animals	This question is about the heart	
9	1a	1	2	2.1.1 j	Cell structure	This synoptic question is about the immune system testing aspects of cell structure and specialised cells	
9	1b	4	1& 2	2.1.1 j, 4.1.1d	Cell structure / Communicable diseases, disease prevention and the immune system	This synoptic question is about the immune system testing aspects of cell structure and specialised cells	
9	1ci	2	2	4.1.1e	Communicable diseases, disease prevention and the immune system	This synoptic question is about the immune system testing aspects of cell structure and specialised cells	
9	1cii	1	1	4.1.1h	Communicable diseases, disease prevention and the immune system	This synoptic question is about the immune system testing aspects of cell structure and specialised cells	
10	1ai	2		2.1.2p, 2.1.4e	Biological molecules / Enzymes	This synoptic question is about ions and aspects of tissue fluid formation, enzyme inhibitors with a practical skills focus	
10	1aii	2	2	3.1.2d	Transport in animals	This synoptic question is about ions and aspects of tissue fluid formation, enzyme inhibitors with a practical skills focus	
10	1bi	2	1	2.1.4f	Enzymes	This synoptic question is about ions and aspects of tissue fluid formation, enzyme inhibitors with a practical skills focus	
10	1bii	2	2	1.1.3di, 2.1.4f	Enzymes / Development of practical skills in biology - Analysis	This synoptic question is about ions and aspects of tissue fluid formation, enzyme inhibitors with a practical skills focus	
10	1biii	2	3	2.1.4f	Enzymes	This synoptic question is about ions and aspects of tissue fluid formation, enzyme inhibitors with a practical skills focus	
10	1biv	3	3	1.1.1a, 1.1.1b, 2.1.4f	Enzymes / Development of practical skills in biology - Planning	This synoptic question is about ions and aspects of tissue fluid formation, enzyme inhibitors with a practical skills focus	
11	1ai	1	1	4.2.1i	Biodiversity	This question is about CITES with data analysis and evaluation	
11	1aii	2	2	4.2.1.i	Biodiversity	This question is about CITES with data analysis and evaluation	
11	1b	2	3	4.2.1i, 1.1.4a	Biodiversity	This question is about CITES with data analysis and evaluation	
12	1ai	3	2	4.2.1d	Biodiversity	This question is about sampling and biodiversity with a synoptic part on DNA purification	

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12	1aii	1	2	1.1.1c, 4.2.1bii	Biodiversity / Development of practical skills in biology - Planning	This question is about sampling and biodiversity with a synoptic part on DNA purification	
12	1b	3	3	1.1.2a, 1.1.4c, 1.1.4e, 2.1.3dii	Development of practical skills in biology - Implementing & Evaluation	This question is about sampling and biodiversity with a synoptic part on DNA purification	
12	1c	1	3	4.2.1c	Biodiversity	This question is about sampling and biodiversity with a synoptic part on DNA purification	
13	1(a)(i)	1	1	3.1.3 b(i), 3.1.3 f	Transport in plants	This question is about translocation and includes synoptic links to tests for biological molecules	
13	1(a)(ii)	4	1	1.1.2 a, 1.1.3 a, 2.1.2 q	Transport in plants / Biological molecules / Development of practical skills in biology - Implementing and analysis	This question is about translocation and includes synoptic links to tests for biological molecules	
13	1(b)(i)	1	2	2.1.2 g, 3.1.3 f	Transport in plants / Biological molecules	This question is about translocation and includes synoptic links to tests for biological molecules	
13	1(b)(ii)	1	2	2.1.2 g, 3.1.3 f	Transport in plants / Biological molecules	This question is about translocation and includes synoptic links to tests for biological molecules	
14	1(a)	2	1 & 2	1.1.3 a, 2.1.1 e	Cell structure / Development of practical skills in biology - Analysis	This is a synoptic question in the context of a blood smear and tests microscopy skills	This calculation may be different from the mark scheme answer due to a scale change in this version
14	1b)(i)	1	1	4.1.1 e(ii)	Communicable diseases, disease prevention and the immune system	This is a synoptic question in the context of a blood smear and tests microscopy skills	
14	1(b)(ii)	1	1	4.1.1 e	Communicable diseases, disease prevention and the immune system	This is a synoptic question in the context of a blood smear and tests microscopy skills	
14	1(c)(i)	3	1	2.1.1 c, 4.1.1 e(ii)	Communicable diseases, disease prevention and the immune system / Cell structure	This is a synoptic question in the context of a blood smear and tests microscopy skills	
14	1(c)(ii)	4	3	1.1.3 a, 2.1.1 c, 2.1.1 l, 2.1.3 f, 2.1.3 g, 4.1.1 f, 4.1.1h	Communicable diseases, disease prevention and the immune system / Cell structure / Nucleotides and nucleic acids / Development of practical skills in biology - analysis	This is a synoptic question in the context of a blood	
15	1(a)(i)	1	2	4.2.2 a	Classification and evolution.	This question has parts from classification, variation, biodiversity and conservation	
15	1(a)(ii)	2	2	4.2.2 f	Classification and evolution.	This question has parts from classification, variation, biodiversity and conservation	
15	1(a)(iii)	2	2	4.2.2 a	Classification and evolution.	This question has parts from classification, variation, biodiversity and conservation	
15	1(b)(i)	1	2	4.2.1 f	Biodiversity	This question has parts from classification, variation, biodiversity and conservation	

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15	1(b)(ii)	6	3	4.2.1 a, 4.2.1 e, 4.2.1 f	Biodiversity	This question has parts from classification, variation, biodiversity and conservation	
15	1(c)(i)	1	2	4.2.1 h	Biodiversity	This question has parts from classification, variation, biodiversity and conservation	
15	1(c)(ii)	1	2	4.2.1 h	Biodiversity	This question has parts from classification, variation, biodiversity and conservation	
15	1(c)(iii)	1	2	4.2.1 h	Biodiversity	This question has parts from classification, variation, biodiversity and conservation	
15	1(c)(iv)	1	2	4.2.1 h	Biodiversity	This question has parts from classification, variation, biodiversity and conservation	
16	1(a)(i)	1	1	1.1.1 a, 3.1.3 c(ii)	Transport in plants / Development of practical skills in biology - Planning	This question is about the potometer and tests practical skills	
16	1(a)(ii)	6	1 & 3	1.1.1 a, 1.1.2 a, 3.1.3 c(ii)	Transport in plants / Development of practical skills in biology - Planning & Implementing	This question is about the potometer and tests practical skills	
16	1(b)(i)	3	3	1.1.3 a, 1.1.4 a, 1.1.4 b, 3.1.3 c(ii)	Transport in plants / Development of practical skills in biology - Analysis & Evaluation	This question is about the potometer and tests practical skills	
16	1(b)(ii)	1	3	1.1.4 a, 3.1.3 c(ii)	Transport in plants / Development of practical skills in biology - Evaluation	This question is about the potometer and tests practical skills	
16	1(b)(iii)	3	2	1.1.3 a, 1.1.3 b, 3.1.3 c(ii)	Transport in plants / Development of practical skills in biology - Analysis	This question is about the potometer and tests practical skills	
16	1(b)(iv)	1	2	1.1.1 a, 3.1.3 c(ii)	Transport in plants / Development of practical skills in biology - Planning	This question is about the potometer and tests practical skills	
16	1(c)	1	3	1.1.1 a, 1.1.1 c, 1.1.2 a, 1.1.4 e, 3.1.3 c(ii)	Transport in plants / Development of practical skills in biology - Planning, Implementing & Evaluation	This question is about the potometer and tests practical skills	
16	1(d)	2	3	1.1.1 a, 1.1.1 b, 1.1.2 c, 3.1.3 c(ii)	Transport in plants / Development of practical skills in biology - Planning & Implementing	This question is about the potometer and tests practical skills	
17	1(a)	2	2	2.1.5 e	Biological membranes	This synoptic question includes water potential in an unfamiliar context testing practical skills	
17	1(b)(i)	2	2	1.1.3 a, 1.1.3 b, 2.1.5 e	Biological membranes / Development of practical skills in biology - Analysis	This synoptic question includes water potential in an unfamiliar context testing practical skills	

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17	1(b)(ii)	2	3	1.1.3 a, 1.1.4 a, 2.1.5 e	Biological membranes / Development of practical skills in biology - Analysis & Evaluation	This synoptic question includes water potential in an unfamiliar context testing practical skills	
17	1(b)(iii)	3	2	2.1.5 e	Biological membranes	This synoptic question includes water potential in an unfamiliar context testing practical skills	
17	1(b)(iv)	2	2	1.1.4 a, 2.1.1 g, 2.1.5 d(i), 2.1.5 e	Biological membranes /Development of practical skills in biology - Evaluation / Cell structure	This synoptic question includes water potential in an unfamiliar context testing practical skills	
18	1(a)(i)	1	1	2.1.1 g	Cell structure	This synoptic question is centered around plant diseases	
18	1(a)(ii)	1	2	4.1.1 c	Communicable diseases, disease prevention and the immune system	This synoptic question is centered around plant diseases	
18	1(b)(i)	2	2	2.1.3 g, 4.1.1 b, 4. 1.1 c	Nucleotides and nucleic acids / Communicable diseases, disease prevention and the immune system	This synoptic question is centered around plant diseases	
18	1(b)(ii)	1	2	2.1.3 b	Nucleotides and nucleic acids	This synoptic question is centered around plant diseases	
18	1(b)(iii)	2	2	2.1.1 l, 2.1.3 g	Cell structure / Nucleotides and nucleic acids	This synoptic question is centered around plant diseases	