Question 1

Question	Answers	Extra information	Mark
01.1	cytoplasm	If more than one box is ticked, award no marks.	1
01.2	leaf	If more than one box is ticked, award no marks.	1
01.3	cell wall, chloroplasts, vacuole	If more than one box is ticked, award no marks.	1
01.4	Any **one** from: • controls the cell • contains the genetic information	Do **not** allow brain of the cell. Allow chromosomes or DNA for genetic information.	1
01.5	Any **two** from: • (it has) no nucleus • (it has) plasmid(s) • (it has) a flagellum/flagella • (it has) no mitochondria	Accept circular DNA/DNA loop. Accept DNA free in the cytoplasm.	2
Total			**6**

Question 2

Question	Answers	Extra information	Mark
02.1	muscle cell ⟶ cardiac muscle ⟶ heart ⟶ circulatory system	If more than one box is ticked, award no marks.	1
02.2	A	If more than one box is ticked, award no marks.	1
02.3	to release energy for muscle contraction	Do **not** allow produce/ make/ create energy. Allow so the muscles can move.	1 1
02.4	red blood cell		1
02.5	one muscle contracts the other muscle relaxes		1 1
Total			**7**

Question 3

Question	Answers	Extra information	Mark
03.1	**Level 3:** There is a clear and detailed description of the steps, including the correct names for each part of the microscope.		5 - 6
	Level 2: Most of the steps are described. Some parts of the microscope may not be named.		3 - 4
	Level 1: There are simple statements that give some steps of the method. Two marks can be given for two correct statements.		1 - 2
	No relevant content.		0
	Indicative content: • place the blood sample/cells onto a slide • place the slide on the stage • centre the blood sample/cells/slide/specimen and fasten the stage clips • turn on light on the microscope **or** angle the mirror • turn the objective lens to the lowest magnification • look down the eyepiece lens • use the focusing wheel(s) to bring the blood sample/cells/specimen into focus • turn the objective lens to a higher magnification		
03.2	Any **two** from: • support to hold the body upright • support to keep organs in place • protect important organs • movement	Allow correctly named organ.	2
03.3	ball and socket (joint)		1

03.4	• the ligaments hold the bones together • the cartilage protects/ cushions/covers the ends of the bones • the fluid keeps the cartilage slippery • to prevent (the ends of) the bones rubbing together	Allow to prevent damage to the bone.	1 1 1 1
Total			**13**