

Question 1

Question	Answers	Extra information	Mark
01.1	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: <ul style="list-style-type: none"> • place the dinoflagellate onto a slide/into a Petri dish/ suitable container • place the slide on the stage • centre the dinoflagellate/slide/specimen and secure with the stage clips • turn on the microscope lamp 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 dinoflagellate/ specimen into focus • turn the objective lens to a higher magnification 		
01.2	the site of (aerobic) respiration/ where respiration takes place	Allow correct equation for aerobic respiration. Do not allow anaerobic respiration.	1
01.3	Any one from: <ul style="list-style-type: none"> • it does not have a (cell) wall • it has a flagellum or tail to help it move/swim • it has a pusule for taking in food 	Accept it can move or swim. Accept it has a tail. Accept it takes in food or eats. Accept it has a mouth-like structure.	1



01.4	Any one from: <ul style="list-style-type: none">• it has a chloroplast• it has a vacuole	Accept chlorophyll.	1
01.5	in the dinoflagellate, (the genetic material) is stored in the nucleus	Assume 'it' refers to the genetic material.	1
	in a bacterial cell, (the genetic material) is free in the cytoplasm	Allow it has (circular) DNA <u>instead of a nucleus.</u> Allow (the genetic material) is not in a nucleus.	1
Total			11

**Question 2**

Question	Answers	Extra information	Mark
02.1	to release energy	Do not allow produce/ make/create energy.	1
	(so) the <u>cilia</u> can move		1
02.2	tissue		1
02.3	(sperm cells) do not work together		1
02.4	reproductive system		1
02.5	(the cilia can) carry/move the egg cell (through the tubes)		1
Total			6

Question 3

Question	Answers	Extra information	Mark
03.1	to protect organs or to keep organs in place	Allow named organ protected by the ribs.	1
03.2	to make/help you move or to support the body	Allow named movement that involves the legs.	1
03.3	the elbow is a hinge joint (so) can move forwards and backwards the shoulder is a ball and socket joint (so) can move in all directions		1 1 1 1
03.4	cartilage protects/cushions/covers the ends of the bones fluid reduces friction in the joint without them the (ends of the) bones will rub against each other	Allow acts as a shock absorber. Allow keeps the cartilage slippery.	1 1 1
Total			9