

Characteristics of Living Organisms

Mark Scheme 2

Level	IGCSE(9-1)
Subject	Biology
Exam Board	Edexcel IGCSE
Module	Single Award (Paper 2B)
Topic	The Nature and Variety of Living Organisms
Sub-Topic	Characteristics of Living Organisms
Booklet	Mark Scheme 2

Time Allowed: 17 minutes

Score: /14

Percentage: /100

Grade Boundaries:

9	8	7	6	5	4	3	2	1
>90%	80%	70%	60%	50%	40%	30%	20%	10%

Question number	Answer	Notes	Marks
1 (a) (i)	kills/remove <u>bacteria</u> / kill/remove <u>fungi</u> / treat <u>bacteria</u> / <u>fungi</u> infections / eq;	Ignore kill pathogens / microbes	1
(ii)	penicillin + methicillin penicillin + mirabilicide methicillin + mirabilicide;	Ignore fight bacteria / fungi Ignore MRSA	max 1
(b) (i)	1. remove / kill / reduce bacteria/pathogens; 2. remove / kill / reduce infection / disease / maggots not infected / eq;	Ignore germs Ignore clean	max 1
(ii)	only digest dead tissue / only eat dead tissue / do not burrow into <u>live</u> flesh / eq;		1
(c)	protease / lipase / amylase / named digestive enzyme;		1
(d)	1. white blood cell; 2. phagocyte; 3. ingest / engulf / eat; 4. digest / breakdown / enzymes; 5. lymphocyte; 6. antibody / antitoxin; 7. antigen	phagocytosis = 2	max 4
(e)	longer to work / expensive / eq;		1
(f)	1. <u>variation</u> / some <u>resistant</u> / some not <u>resistant</u> ; 2. <u>mutation</u> / <u>mutates</u> / <u>mutated</u> ; 3. <u>survive(s)</u> / <u>survival</u> / <u>survived</u> / not killed / eq; 4. reproduce / multiply / breed / eq; 5. pass on gene(s) / alleles / eq;	Ignore immune	Max 4 Total 14 marks