

WJEC (Eduqas) Biology GCSE
Topic 7.4 Selective Breeding and
Gene Technology
Questions by Topic - Mark
Scheme

3.

Sub-section		Mark	Answer	Accept	Neutral answer	Do not accept
(b)	i	1	Japan;			
	ii	1	9;			
	iii	2	number of cases of blindness decreases/ no blindness/ prevents blindness; Because {they / both groups} are now {reaching RDA/ having enough vitamin A}; 2nd mark linked to 1st	plenty of vitamin A/ stops vitamin A deficiency		more vitamin A
(c)		2	health concerns from <u>eating</u> GM foods/ <u>eating</u> GM crops {will harm them/ have side effects}; concerns about GM organisms breeding with native organisms.	eating GM crops will poison them/ they do not if it is safe to eat		

4.

Sub-section		Mark	Answer	Accept	Neutral answer	Do not accept
(a)		1	Dieldrin and It {does not break down/ still remains} after 40 days;	Breaks down more slowly/ lasts longer		
(b)	(i)	2	Gene cut out of insect { <u>chromosome/ DNA</u> }; Inserted into { <u>chromosome/DNA</u> } of bacterium;	plasmid		