

Question Number	Answer	Additional Guidance	Mark		
8(a)	Number of chromosomes in the cells				
	Stage	11	22	44	88
	gamete	☒	X	☒	☒
	planula	☒	☒	X	☒
	ephyra	☒	☒	X	☒
				(3)	

Question Number	Answer	Additional Guidance	Mark
8(b)	female	ACCEPT ♀	(1)
	female ;		

Question Number	Answer	Additional Guidance	Mark
8(c)	1. sexual reproduction results in genetic diversity ;	1. ACCEPT genetic variation	(3)
	2. idea of sexual reproduction reducing the chances that all jellyfish would be killed by a change in the environment ;	2. e.g. disease, change in pH, change in temperature	
	3. asexual reproduction results in genetically identical jellyfish / eq ;	3. ACCEPT no genetic variation 3. ACCEPT asexual reproduction is fast(er) 3. ACCEPT asexual reproduction does not need a mate	
	4. idea that with asexual reproduction, all offspring capable of surviving in the (current) environment / eq ;	4. ACCEPT idea the population increases quickly with asexual reproduction 4. ACCEPT asexual reproduction maintains a large population 4. ACCEPT isolated individual can reproduce asexually	