

Mark scheme - Classification and Evolution - MCQ

Question		Answer/Indicative content	Marks	Guidance
1		D ✓	1	
		Total	1	
2		C	1	
		Total	1	
3		A	1	
		Total	1	
4		B	1	
		Total	1	
5		D ✓	1	
		Total	1	
6		B ✓	1	
		Total	1	
7		D \}	1	Examiner's Comments Around a third of candidates achieved this mark. All possible answers were seen, in almost equal proportions.
		Total	1	
8		B ✓	1 (AO1.2)	Examiner's Comments Most responses were correct. The most common misconception was that antibiotic resistance is an example of genetic drift.
		Total	1	
9	i	<i>Pinus resinosa</i> ✓	1	Examiner's Comments This was generally well answered. Most candidates understood that organisms in the same genus were more closely related than those in different genera that had the same species name.

				<p>ALLOW 'they are both eukaryotic'</p> <p>ALLOW 'all eukaryotes are classified in the same domain'</p> <p>e.g. 'both the pine and humans have cells with membrane-bound organelles'</p> <p>e.g. 'pines carry out photosynthesis but humans do not'</p> <p>'plant cells have permanent vacuole but animal cells do not'</p> <p>'difference is animal cells do not have cell wall'</p> <p><u>Examiner's Comments</u></p> <p>The majority of candidates gained credit for stating that <i>Pinus glabra</i> and <i>Homo sapiens</i> are both eukaryotes. Many candidates described similarities in cell structure to justify this statement. Most candidates recognised that <i>Pinus glabra</i> are plants and <i>Homo sapiens</i> are animals but many did not gain credit by explaining why they are classified in this way. Many candidates who attempted to describe a difference between the two kingdoms did not make a comparative statement and so did not gain the mark.</p>
		ii	<p><i>In the same domain because</i></p> <p>(plants / pines, and, animals / humans) are both eukaryotes</p> <p>or</p> <p>description of similarity between plant and animal (eukaryotic) cells✓</p> <p><i>In different kingdoms because</i></p> <p>description of difference between plants and animals ✓</p>	2
			Total	3
10			B ✓	1
			Total	1
11			B ✓	1
			Total	1
12			A	1 (AO2.5)
			Total	1

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13		C	1 (AO2.6)	
		Total	1	
14		B✓	1(AO2.4)	
		Total	1	
15		C✓	1(AO2.4)	
		Total	1	
16		A ✓	1 AO 2.1	
		Total	1	
17		A ✓	1	Examiner's Comments Candidates who read the question carefully spotted that it is asking for an adaptation to reduce water loss. Roots have nothing to do with water loss, they are involved in uptake. The other three adaptations refer to leaves where the majority of water loss occurs.
		Total	1	
18		B ✓	1	Examiner's Comments Candidates found this question straightforward.
		Total	1	
19		D	1	
		Total	1	