<table>
<tr><th>Question number</th><th>Answer</th><th>Notes</th><th>Marks</th></tr>
<tr><td>1</td><td>
<table>
<tr><th rowspan="2">Structure</th><th colspan="3">Organism</th></tr>
<tr><td>bacteria</td><td>fungi</td><td>viruses</td></tr>
<tr><td>cell wall</td><td>✓</td><td>✓</td><td>×;</td></tr>
<tr><td>nucleus</td><td>×</td><td>✓</td><td>×;</td></tr>
<tr><td>chloroplast</td><td>(✓)</td><td>×</td><td>×;</td></tr>
</table>
</td><td>If no X s and all ✓ in correct places allow Max 2</td><td>3</td></tr>
</table>

Total 3 marks

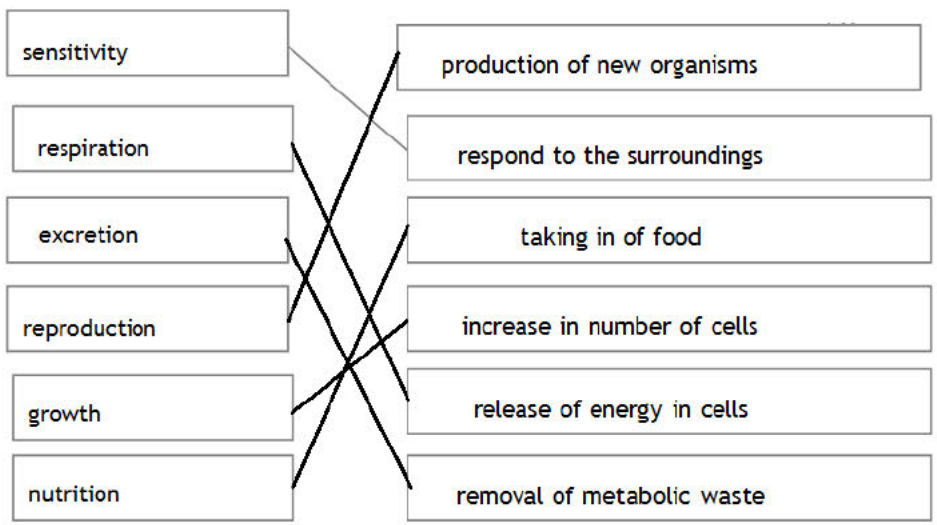
<table>
<tr><th>Question number</th><th>Answer</th><th>Notes</th><th>Marks</th></tr>
<tr><td>2 (a)</td><td>
<table>
<tr><th>Group</th><th colspan="4">Fe re</th></tr>
<tr><th></th><th>Cell wall</th><th>Plasmid</th><th>Cytoplasm</th><th>Nucleus</th></tr>
<tr><td>bacteria</td><td>✓</td><td>✓</td><td>(✓)</td><td>×</td></tr>
<tr><td>fungi</td><td>✓;</td><td>×;</td><td>✓</td><td>(✓)</td></tr>
<tr><td>protoctists</td><td>(×)</td><td>×)</td><td>✓;</td><td>✓;</td></tr>
</table>
</td><td>one mark for each correct column

hybrid cross tick = 0

empty box = 0</td><td>4</td></tr>
<tr><td>(b) ( )</td><td>virus / eq;</td><td>allow named virus
allow prion
allow nematodes
allow helminths</td><td>1</td></tr>
<tr><td>(ii)</td><td>malaria / dysentery / sleeping sickness / giardiasis / toxoplasmosis / eq;</td><td></td><td>1</td></tr>
</table>

Total 6 marks

Question number	Answer	Notes	Marks
3 (a)	E; C;		2
(b)	1. can be used in the production of beer; 2. cell wall is made of chitin;	3 ticks max 1 4 ticks or more = 0	2

Question number	Answer	Notes	Marks
4		5 = 4 4 = 3 3 or 2 = 2 1 = 1	4

Total 4 marks

<table>
<tr><th>Question number</th><th>Answer</th><th>Notes</th><th>Marks</th></tr>
<tr><td>5 (a)</td><td>
<table>
<tr><th>Group</th><th>Can carry out photosynthesis</th><th>Have a cell wall</th><th>Can be pathogenic</th></tr>
<tr><td>bacteria</td><td>✓</td><td>✓</td><td>✓</td></tr>
<tr><td>fungi</td><td></td><td>✓</td><td>✓</td></tr>
<tr><td>viruses</td><td></td><td>X</td><td>✓</td></tr>
</table>
</td><td>hybrid cross tick = 0

blank = 0

8 = 4
7/6 = 3
5/4 = 2
3/2 = 1
1/0 = 0</td><td>4</td></tr>
<tr><td>(b)</td><td>
<table>
<tr><th>Characteristic</th><th>Example of this process</th></tr>
<tr><td>they require nutrition</td><td>eating food</td></tr>
<tr><td>they respire</td><td>releasing energy from carbohydrate</td></tr>
<tr><td>movement / eq;</td><td>some animals can fly</td></tr>
<tr><td>they control their internal conditions</td><td>blood glucose / blood pressure /body temperature / sweating / osmoregulation / eq;</td></tr>
<tr><td>reproduce / eq;</td><td>increase of the population of foxes</td></tr>
<tr><td>they grow</td><td>cells divide / increase in mass / size / get bigger / increase in height / eq;</td></tr>
</table>
</td><td></td><td>4</td></tr>
</table>

Question number	Answer		Marks
5 (c)	receptor / nerve ending; sensory neurone / sensory nerve; impulse / message / signal; CNS / spinal cord / grey matter; synapse; relay neurone / relay nerve; motor neurone ; muscle / effector; contract;	sensory or motor not in correct order = 0 ignore brain allow intermediate / association;	5
		Total	13