

Question Number	Correct Answer	Mark
1(a)	<ol style="list-style-type: none"> <li>1. nature of abnormality e.g. bleeding, ref. to density ;</li> <li>2. {location / eq} of abnormality ;</li> <li>3. {extent / size/ eq} of abnormality ;</li> <li>4. likely problems e.g. accessibility for surgery ;</li> </ol>	max (2)

Question Number	Correct Answer	Mark
1(b)	<ol style="list-style-type: none"> <li>1. (found in) different {regions / eq} of brain / eq ;</li> <li>2. the right hand brain has {more / two/ eq} abnormalities ;</li> <li>3. different areas of brain have different functions / eq ;</li> <li>4. {symptoms / eq} depend on region of brain affected / eq ;</li> <li>5. idea of different types of abnormality can cause different symptoms ;</li> </ol>	max (2)

Question Number	Correct Answer	Mark
1(c)	<ol style="list-style-type: none"> <li>1. detects level of oxygenation of the blood /measures changes in blood flow within brain / eq ;</li> <li>2. {increased flow / more oxygen / eq} suggests increased activity / eq ;</li> <li>3. study brain activity related to {stimuli / tasks / eq} ;</li> </ol>	max (2)

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1(d)	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>W</th> <th>X</th> <th>Y</th> <th>Z</th> <th></th> </tr> </thead> <tbody> <tr> <td>Regulating core temperature</td> <td></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td></td> <td></td> <td style="text-align: center;">;</td> </tr> <tr> <td>Climbing stairs</td> <td></td> <td></td> <td></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;">;</td> </tr> <tr> <td>Regulating carbon dioxide in the blood</td> <td></td> <td></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td></td> <td style="text-align: center;">;</td> </tr> <tr> <td>Choosing a gift</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td style="text-align: center;">;</td> </tr> </tbody> </table>		W	X	Y	Z		Regulating core temperature		<input checked="" type="checkbox"/>			;	Climbing stairs				<input checked="" type="checkbox"/>	;	Regulating carbon dioxide in the blood			<input checked="" type="checkbox"/>		;	Choosing a gift	<input checked="" type="checkbox"/>				;	<b>(4)</b>
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Question number	Answer	Mark
2(a)(i)	C	(1)

Question number	Answer	Mark
2(a)(ii)	A	(1)

Question number	Answer	Mark
2(a)(iii)	D	(1)

Question number	Answer	Mark
2(b)(i)	<ol style="list-style-type: none"> <li>1. Idea that lack of (visual) stimulation limits brain development ;</li> <li>2. Idea that this due to of lack of connections ;</li> <li>3. within the {visual cortex / eq} / eq ;</li> <li>4. Idea that the brain cannot interpret this visual information correctly / eq ;</li> <li>5. reference to critical {period / window} ;</li> <li>6. idea that mice are different from humans ;</li> </ol>	(3)

Question number	Answer	Mark
2(b)(ii)	<ol style="list-style-type: none"> <li>1. Idea that embryo supplies cells ;</li> <li>2. Idea that some people have {ethical / eq} objections to the use of embryonic cells / eq ;</li> <li>3. Idea of objections to the use of animals ;</li> <li>4. Idea of risk of stem cells becoming cancerous ;</li> </ol>	(2)

Question number	Answer	Mark
2(c)(i)	<ol style="list-style-type: none"> <li>1. Idea that (cerebral hemisphere) is the site of vision perception ;</li> <li>2. reference to visual cortex / eq ;</li> <li>3. idea that stem cells differentiate ;</li> <li>4. this treatment will help to establish (neurone) connections / eq ;</li> <li>5. Idea that can not get stem cells to this location any other way (than injection) ;</li> </ol>	(2)

Question number	Answer	Mark
2(c)(ii)	<ol style="list-style-type: none"> <li>1. reduce number of variables / to keep all variables constant / eq ;</li> <li>2. so that only the effect of the {treatment / eq} is measured / eq ;</li> </ol>	(2)