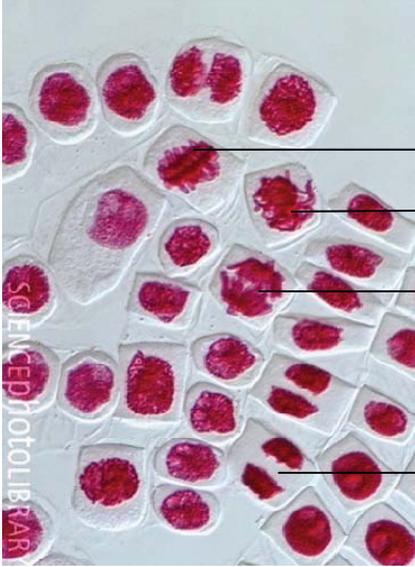


Question Number	Answer	Mark										
4(a)	<table border="1"> <thead> <tr> <th>Statements about cell division</th> <th>Meiosis is involved</th> </tr> </thead> <tbody> <tr> <td>Required for both sexual and asexual reproduction</td> <td></td> </tr> <tr> <td>Produces gametes</td> <td>✓ ;</td> </tr> <tr> <td>Crossing over can occur</td> <td>✓ ;</td> </tr> <tr> <td>Occurs in mammals but not flowering plants</td> <td></td> </tr> </tbody> </table>	Statements about cell division	Meiosis is involved	Required for both sexual and asexual reproduction		Produces gametes	✓ ;	Crossing over can occur	✓ ;	Occurs in mammals but not flowering plants		(2)
	Statements about cell division	Meiosis is involved										
	Required for both sexual and asexual reproduction											
	Produces gametes	✓ ;										
	Crossing over can occur	✓ ;										
Occurs in mammals but not flowering plants												

Question Number	Answer	Mark
4(b)	 <p>A - metaphase ; B - prophase ; C - anaphase ; D - telophase ;</p>	(4)

Question Number	Answer	Mark
4(c)(i)	site of {cell division / mitosis / actively dividing cells / meristem / eq };	(1)

Question Number	Answer	Mark
4(c)(ii)	to {soften the material / macerate / break middle lamella / eq};	(1)

Question Number	Answer	Mark
4(c)(iii)	{(acetic) orcein / lacto-propionic orcein / toluidine (blue) / Schiffs / eq} ;	(1)

Question Number	Answer	Mark
4(c)(iv)	each mark is for the risk + appropriate precaution 1. cut and appropriate precaution ; 2. acid and appropriate precaution ; 3. heat and appropriate precaution ; 4. stain and appropriate precaution ; 5. coverslip and appropriate precaution ;	max (2)