

Question Number	Answer	Mark
7 (a)	<p>1. C ;</p> <p>Any two of the following</p> <p>2. all genes (potentially) active / as <u>no</u> genes {switched off / deactivated} / {cell A / cell B} has genes switched off / eq ;</p> <p>3. idea that therefore it can {give rise to/differentiate to become} all cell (types) ;</p> <p>4. differentiation has occurred in cell {A / B} / eq ;</p>	(3)

Question Number	Answer	Mark
7 (b)(i)	<p>1. {undifferentiated / unspecialised} cell ;</p> <p>2. some genes {deactivated / switched off} ;</p> <p>3. idea that it can give rise to most specialised cells / eq ;</p> <p>4. but not totipotent stem cells / extra embryonic cells / eq ;</p>	(2)

Question Number	Answer	Mark
7 (b)(ii)	<p>1. fertilised egg allowed to {grow for a few days/ divide several times / eq} ;</p> <p>2. reference to a {blastocyst/ blastula / hollow ball of cells / eq} ;</p> <p>3. cells in inner cell mass are {pluripotent / harvested} ;</p> <p>4. procedure for extraction of cells / eq ;</p> <p>5. ref to source of fertilised egg e.g. spare embryo after IVF ;</p>	(3)