

Question Number	Answer	Mark
7 (a)	<ol style="list-style-type: none"> 1. C ; <p>Any two of the following</p> <ol style="list-style-type: none"> 2. all genes (potentially) active / as <u>no</u> genes {switched off / deactivated} / {cell A / cell B} has genes switched off / eq ; 3. idea that therefore it can {give rise to/differentiate to become} all cell (types) ; 4. differentiation has occurred in cell {A / B} / eq ; 	(3)

Question Number	Answer	Mark
7 (b)(i)	<ol style="list-style-type: none"> 1. {undifferentiated / unspecialised} cell ; 2. some genes {deactivated / switched off} ; 3. idea that it can give rise to most specialised cells / eq ; 4. but not totipotent stem cells / extra embryonic cells / eq ; 	(2)

Question Number	Answer	Mark
7 (b)(ii)	<ol style="list-style-type: none"> 1. fertilised egg allowed to {grow for a few days/ divide several times / eq} ; 2. reference to a {blastocyst/ blastula / hollow ball of cells / eq} ; 3. cells in inner cell mass are {pluripotent / harvested} ; 4. procedure for extraction of cells / eq ; 5. ref to source of fertilised egg e.g. spare embryo after IVF ; 	(3)