1. Correctly label the parts of this diagram, which shows the human respiratory system. (8 marks)
2. In the diagram, label where you think the epiglottis is located. (2marks)



1. Match the part of the respiratory system to its function.

|  |  |
| --- | --- |
| Larynx  | Also called the windpipe is a straight tube about 12cm long. It allows air to pass freely to and from the lungs |
| Diaphragm  | It is also called the *Adam’s apple* and contains your vocal chords. When air blows over these it makes sounds. |
| Rib cage | Is the structure which protects the lungs and other internal organs, moves up and down during breathing. |
| Bronchus  | This forms the floor of the thorax, it is very important in breathing. |
| Trachea  | It spits into smaller tracks each of which goes into each lung. |

 (5 marks)

1. Complete the table below: (8 marks)

|  |  |
| --- | --- |
| Inhalation | Exhalation  |
|  Diaphragm moves \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Ribs raised \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_. | Diaphragm moves upwards. Ribs \_\_\_\_\_\_\_\_\_\_\_\_ down and \_\_\_\_\_\_\_\_\_.  |
| This movement causes the volume of the ribcage to \_\_\_\_\_\_\_\_\_\_\_\_\_ and air pressure in the lungs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  | This movement causes the \_\_\_\_\_\_\_\_\_\_\_ of the rib cage to decrease and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ inside the lungs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  |
| Air is \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ your lungs.  | Air is forced **out** of your lungs.  |

1. In the diagram below which shows the bell jar model, state what the Y-Tube, Balloon and the Rubber Sheet represents in the human respiratory system. (3 marks)

Y- Tube - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Balloon \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rubber Sheet \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. How does the bell jar demonstrate breathing?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 (5 marks)