

RESPIRATORY SYSTEM WORKSHEET

1. List the major components of the respiratory system and state a function of each component.

- i).....
- ii).....
- iii).....
- iv).....
- v).....
- vi).....

2. Trace the path of air from the atmosphere to alveoli in the lungs.

Atmosphere → nostrils →

3. Distinguish between the terms in each of the following sets:

a) Tidal volume: Inspiratory reserve volume

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b) Residual volume: Expiratory reserve volume

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c) Vital capacity: Inspiratory capacity

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d) Functional residual capacity: Total lung capacity

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4. Explain mechanisms involved with transport of each of the following gases in blood:

a) Oxygen

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b) Carbon dioxide

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5. List factors that promote:

a) Systemic gas exchange

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b) Alveolar gas exchange

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6. State the location and role of **peripheral chemoreceptors** in respiration. Explain the involvement of the **vagus and glossopharyngeal nerves** in your answer.

a) **Location:**.....

b) **Role:**.....

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