

ANSWER KEY	Chapter 7 Test Answer Key	BLM 7.4.1A
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Answers to **Multiple Choice** Questions

1. c
2. a
3. d
4. c
5. b
6. d
7. c
8. a
9. b
10. b
11. c
12. a
13. b
14. d
15. c
16. d
17. d
18. a
19. c
20. a
21. a
22. b
23. b
24. c
25. d

Answers to **Numerical Response** Questions

1. 4750 mL (students will not use units if using machine scored answer sheets)
2. 2250 mL (students will not use units if using machine scored answer sheets)
3. 3, 2, 4, 1
4. 1200 mL (students will not use units if using machine scored answer sheets)

ANSWER KEY

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BLM 7.4.1A

Sample Answers to **Written Response** Questions

1. a) The camera would pass the following structures, in order:
nasal cavities → pharynx (nasopharynx) → epiglottis → glottis → larynx (vocal cords) → trachea → bronchi → bronchioles (1 mark each for a total of 8 marks)
- b) Lung cancer is the uncontrolled and invasive growth of abnormal cells in the lungs. The abnormal cells multiply and form a malignant tumour, or carcinoma.
- Bronchoscopy is a diagnostic procedure that provides a visual inspection of the airways. (3 marks)
- c) Smoker's cough is actually chronic bronchitis. Normally, cilia that line the respiratory tract beat outwards and sweep harmful materials out of the lungs. Smoking destroys the cilia, and consequently the pollutants in cigarette smoke and mucous collect in the lungs. The airways are inflamed and filled with mucous. A cough that brings up mucous is common. (3 marks)
- d) A person with emphysema will be:
- breathless - the surface area for gas exchange is reduced and the body will respond by increasing the breathing rate to take in more oxygen (2 marks)
 - cough – damage to the cilia in the respiratory tract will lead to a buildup of mucous. Coughing is one way to get rid of the excess mucous. (2 marks)
 - tired/fatigued – the lack of oxygen getting to the cells will reduce cellular respiration (less energy) (2 marks)
- e) Normally, cilia that line the respiratory tract beat outwards and sweep harmful materials out of the lungs. Smoking destroys the cilia, and consequently the pollutants in cigarette smoke and mucous collect in the lungs. The alveoli become distended and their walls are damaged, reducing the surface area for gas exchange. (3 marks)

Deleted: If the flexible fibre optic instrument was inserted through the nose **list**, in order, the parts of the respiratory system that the camera would pass. (

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Deleted: A doctor suspects her patient may have lung cancer. **What** is lung cancer and **identify** one reason why a doctor would order this procedure for this patient? (3 marks)¶

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Deleted: Describe smoker's cough and explain why people who smoke develop this problem. (3 marks)¶

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Deleted: Identify the three symptoms that a person with emphysema would have, and explain why these symptoms would occur. (6 marks)¶

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Deleted: Most people with emphysema are or were smokers. **Explain** the role that smoking plays in developing this disorder. (3 marks)¶

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