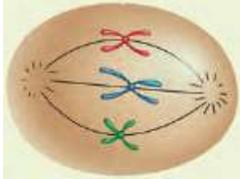
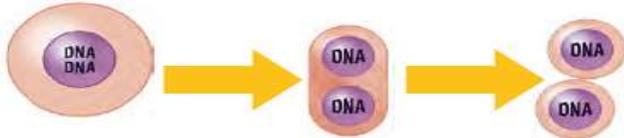


SNC2P Biology Unit Exam Review

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- 1. What are the thread-like structures in the nucleus that contain the genetic information of the cell?
 - a. mitochondria b. chromosomes c. vacuoles d. metaphase
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- 2. Which of the following is NOT a component of blood?
 - a. plasma b. white blood cells c. platelets d. bile
-
- 3. Which of the following is the study of living things?
 - a. physics b. biology c. geology d. chemistry
-
- 4. What are vacuoles, the nucleus, and mitochondria examples of?
 - a. organelles b. tumours c. carcinogens d. cells
-
- 5. Which part of the cell directs the cell's activity?
 - a. vacuole b. chromosome c. nucleus d. cell membrane
-
- 6. Animals try to escape from predators. Which characteristic of living things does this action demonstrate?
 - a. Living things grow in size, reproduce, and are able to repair themselves.
 - b. Living things have a life span.
 - c. Living things can sense and respond to changes in their environment.
 - d. Living things require energy.
-
- 7. Which statement best describes interphase?
 - a. It is a period of growth and preparation.
 - b. It is the final stage of the cell cycle.
 - c. The cytoplasm divides to form two identical cells.
 - d. The nucleus divides.
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- 8. Which phase of mitosis does this diagram show?

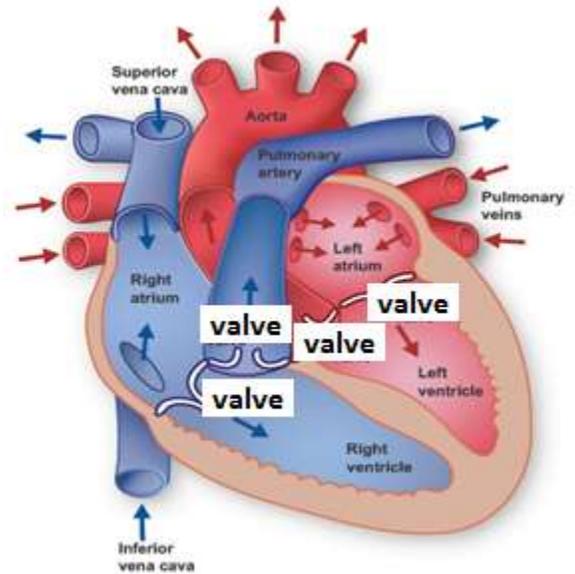


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- 9. What process does the following diagram show?



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- 10. What is the first chamber that used blood from the body arrives in at the heart?
 - Right atrium
 - Right ventricle
 - left atrium
 - left ventricle



-
- 11. The correct pathway of blood flow through the heart is:
 - right atrium, pulmonary vein, right ventricle, pulmonary artery, lungs, left atrium, left ventricle, aorta
 - vena cava, left ventricle, pulmonary artery, lungs, pulmonary vein, left atrium, right atrium ventricle, aorta
 - right atrium, right ventricle, pulmonary artery, lungs, pulmonary vein, left atrium, left ventricle, aorta
 - pulmonary vein, left ventricle, right atrium, vena cana, aorta, lungs

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- 12. Which organ system transports oxygen from air and removes carbon dioxide from the body?
 - digestive system
 - nervous system
 - circulatory system
 - respiratory system

-
- 12. All of the following are found in animal cells EXCEPT for
 - mitochondria
 - cytoplasm
 - cell wall
 - cell membrane

-
- 13. Complete the following table of data based on the death rates of many common diseases.

Disease/Illness	Number of Cases	Number of Deaths	Percentage (%) of People Who Died
Lung cancer	100	15	•
Breast cancer	200	125	•
Colon cancer	100	20	•

-
- 14. State the system that each of the diseases or illnesses effects.

Disease/Illness	System (respiratory, circulatory or digestive)
influenza	•
heart attack	•
SARS	•

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15. Using lines to match the correct function for four components of blood

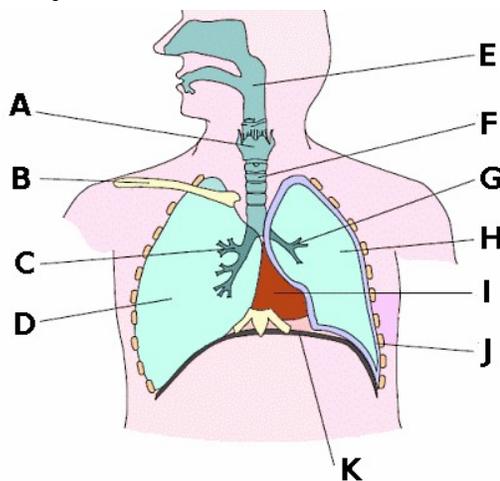
• Blood components
• White blood cells
• Red blood cells
• Platelets
• Plasma

• Its function
• Carry O ₂ and nutrients and removes waste
• Help with blood clotting and sealing wound
• Dissolves hormones and all blood cells
• Fight and destroy germs such as bacteria and viruses

16. Fill in the blank:

Word bank:

- a. The _____ system supplies the cells of the _____ system with oxygen from air and removes waste gases such as CO₂
- b. _____ is a medical diagnostic tool that use sound waves to generate a 3D- image
- c. _____ imaging tool is good for diagnosing _____ but can cause DNA _____
- d. As one inhales, her chest cavity _____ in volume and _____ in pressure. This causes air to _____ the lungs and the lungs become _____
- e. _____ are unspecialized cells capable of becoming specialized cells.



17. State the part of the respiratory system in the diagram shown by each letter.

Word bank (not all will be used):

diaphragm lung trachea bronchus pharynx

- F _____
- D _____
- C _____
- K _____

18. Frog dissection: Label the two frog organs below

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