

Fill in the following blanks with the very best answer to the description given.

- | | |
|-------------------|--|
| <u>histology</u> | 1. The study of tissues |
| <u>system</u> | 2. Group of organs performing a specific function |
| <u>tissues</u> | 3. Group of similar cells |
| <u>organism</u> | 4. Systems functioning together |
| <u>cell</u> | 5. Unit of structure and function |
| <u>epithelium</u> | 6. Major tissue type that protects, absorbs and secretes |
| <u>muscle</u> | 7. Major tissue type that moves parts of the body |
| <u>nerve</u> | 8. Major tissue type that carries nerve impulses |
| <u>connective</u> | 9. Major tissue type that supports and joins various other tissues together as well as aids in distribution of nutrients |
| <u>epithelium</u> | 10. Major tissue type that covers the body both externally and internally |
| <u>matrix</u> | 11. The name for the intercellular substances between connective tissue cells |
| <u>neuron</u> | 12. Name for the nerve cell |
| <u>epithelium</u> | 13. Major tissue type that serves as protection against invasion by microbes |
| <u>epithelium</u> | 14. Major tissue type that has tightly packed cells that are replaced frequently & divide readily |
| <u>connective</u> | 15. Major tissue type that is highly vascular |
| <u>epithelium</u> | 16. Major tissue type that generally has no blood vessels in it |
| <u>mucus</u> | 17. The substance secreted by Goblet cells |
| <u>keratin</u> | 18. The protein substance that is found in outer skin cells |

Identify the following types of EPITHELIUM TISSUE by the description as:

- | | | | |
|---------------|-------------|---------------------|----------------------|
| A. Stratified | B. Squamous | C. Endothelium | D. Transitional |
| E. Columnar | F. Cuboidal | G. Pseudostratified | H. Ciliated Columnar |

- | | |
|----------|---|
| <u>H</u> | 19. Lines the oviducts |
| <u>E</u> | 20. Taller than broad |
| <u>F</u> | 21. Found in the kidney tubules |
| <u>A</u> | 22. Several layers thick; the lowest layers are tall & cylindrical that gradually transform into flat, covering cells |
| <u>E</u> | 23. Line the stomach |
| <u>G</u> | 24. Line the respiratory tract |
| <u>A</u> | 25. Form the skin; protect the body from mechanical injury |
| <u>A</u> | 26. Can contain keratin |
| <u>C</u> | 27. Lines the arteries, capillaries and veins |
| <u>B</u> | 28. Forms the membrane over the lungs |
| <u>D</u> | 29. Changes in response to tension |
| <u>B</u> | 30. Forms (secretes) the pericardial fluid around the heart |
| <u>F</u> | 31. Heavy, stout cells that look cubical in cross-section |

Anatomy Workbook Chapter 6 Answers

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web diagram indicating kinetochore microtubules bound to kinetochores and the aster the aster is an array of microtubules that radiates out from the centrosome towards the cell edge diagram also indicates the centromere region of a chromosome the narrow waist where the two sister chromatids are most tightly connected and the kinetochore a

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web specifically compare the chromosomes in cells at the end of mitosis vs the end of meiosis i recognizing that the diagram of mitosis tracks just a single pair of homologous chromosomes whereas the diagram of meiosis tracks two pairs of homologous chromosomes one long chromosome and short chromosome

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web prophase prometaphase the cell prepares for mitosis at this stage the chromosomes are not clearly visible the chromosomes pairs of sister chromatids condense and become visible meanwhile the nucleolus and nuclear envelope disappear the centrioles begin moving to opposite ends of the cell and start forming the mitotic spindle metaphase

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