EXERCISE 6 • Matching Structures and Functions

Match the structures below with their specific functions.

1. Hair follicle  A. Protects the body from invading pathogens and the sun
2. Fingernail  B. Sensitive to chemicals released by tissue damage
3. Arrector pili  C. Produces sweat
4. Sebaceous gland  D. Contracts to raise hairs trapping air for insulation of skin
5. Sudoriferous gland  E. Tube that shapes hair shaft as it grows
6. Eccrine gland  F. Sensitive to vibration and light touch
7. Apocrine gland  G. Sensitive to deep touch, pressure, and tissue distortion
8. Nociceptor  H. Excretes sweat for thermal and water regulation only
9. Merkel disc  I. Protects fingers; helps us scratch and grasp small objects
10. Meissner’s corpuscle  J. Senses movement of hair shaft
11. Pacinian corpuscle  K. Sensitive to light touch
12. Ruffini’s corpuscle  L. Excretes oil
13. Hair root plexus  M. Excretes sweat with traces of lipids and pheromones
14. Sebum  N. Sensitive to high-frequency vibrations and deep pressure
15. Epidermis  O. Lubricates and softens the outer surface of the skin