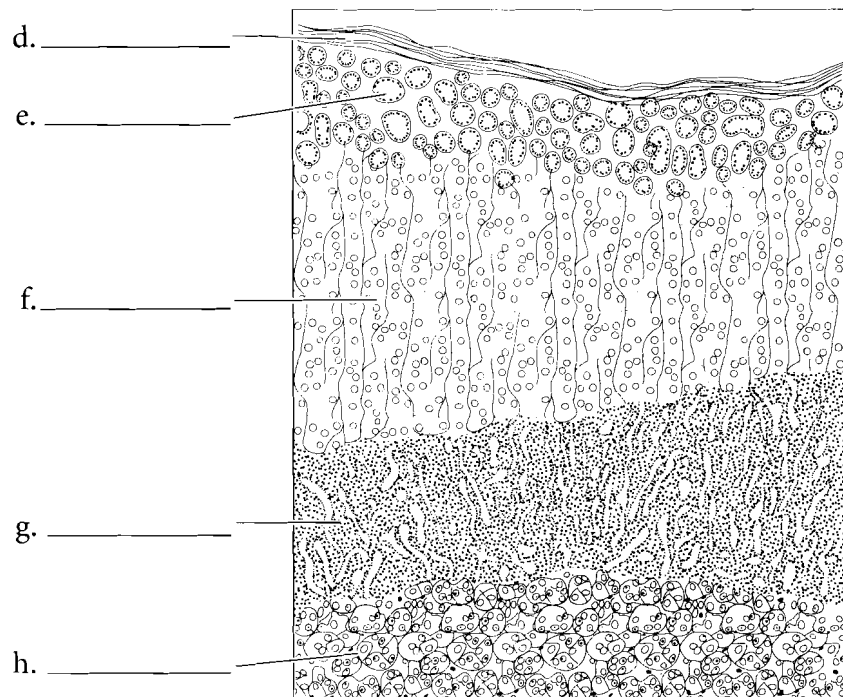
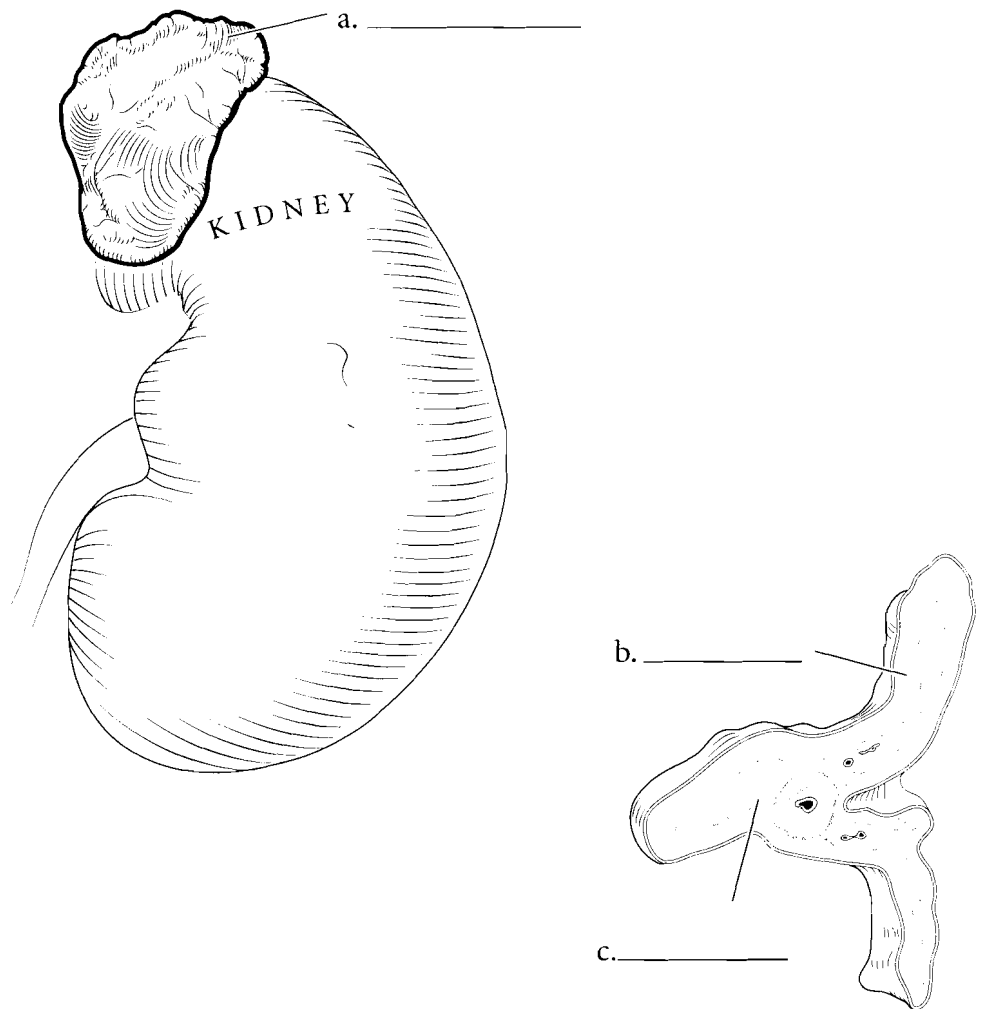


ADRENAL GLANDS

The **adrenal glands** are positioned superior to the kidneys and are divided into the adrenal **cortex** and the **medulla**. The cortex has three layers. The most superficial layer is the **zona glomerulosa**, which is deep to the adrenal capsule and responsible for the secretion of mineralocorticoid hormones. The next layer is the **zona fasciculata** which mainly secretes glucocorticoids, hormones responsible for the breakdown of proteins and lipids and the synthesis of glucose. The **zona reticularis** is the deepest layer of the cortex and it secretes androgens (male sex hormones) and small amounts of estrogens (female sex hormones) in both sexes. The most prevalent male hormone is DHEA (dehydroepiandrosterone) which is responsible for the development of the sex drive, pubic hair, and axillary hair. The effects of DHEA are minimized in males as the testes secrete greater amounts of testosterone. The adrenal medulla is the deepest part of the adrenal gland and it secretes epinephrine and norepinephrine. Label and color the adrenal glands and use a different color for each layer of the cortex and another for the medulla.



Answer Key: a. Adrenal glands,
b. Cortex, c. Medulla, d. Capsule,
e. Zona glomerulosa, f. Zona fasciculata,
g. Zona reticularis, h. Medulla