STUDY GUIDE: Human Reproduction

KEY TERMS

FEMALE

estrus cycle  
menstruation  
luteinizing hormone, or LH  
nest cycle  
mestrual cycle  
luteinizing hormone, or LH  
follie-stimulating hormone, or FSH  
GRF(=gonadotropin releasing factors)  
hypothalamus  
anterior pituitary gland  
ovary  
oocyte  
follicle  
parts of the female reproductive tract  
oviduct  
uterine tube  
uterus  
myometrium  
endometrium  
cervix  
vagina  
vulva  
estrogen  
progesterone  
LH surge  
ovulation  
corpus luteum  
luteal phase  
flow phase  
"hot flash"  
menopause

MALE

testis  
epididymis  
vas deferens  
urethra  
Cowper's or bulbourethral gland  
prostate gland  
seminal vesicles  
seminiferous tubules  
basement membrane  
spermatogonia  
spermatocytes  
primary  
secondary  
spermatids  
sperm  
head  
acrosome  
nucleus  
midpiece  
tail  
interstitial cells  
testosterone

FERTILIZATION

sperm transport  
semen fluid(=semen)  
zygote  
polar bodies  
chromosomes

QUESTIONS

1. Outline the production of sperm in the testis and trace the path of sperm from the testis until they leave the body in semen.
2. Using a diagram, describe the sequence of events in the menstrual cycle of a human female. Be sure to specify the successive levels of the hormones involved, and the effect each hormone has on the follicle, the uterine lining, or the production of other hormones.
3. Discuss the role of the hypothalamus in the female reproductive cycle.