Unit 24 · Reproductive System

WORKSHEET

Full marks 32

Name _____ Class _____ Roll no. _____ Date _____ Marks _____ / 32

1 Key words [4]

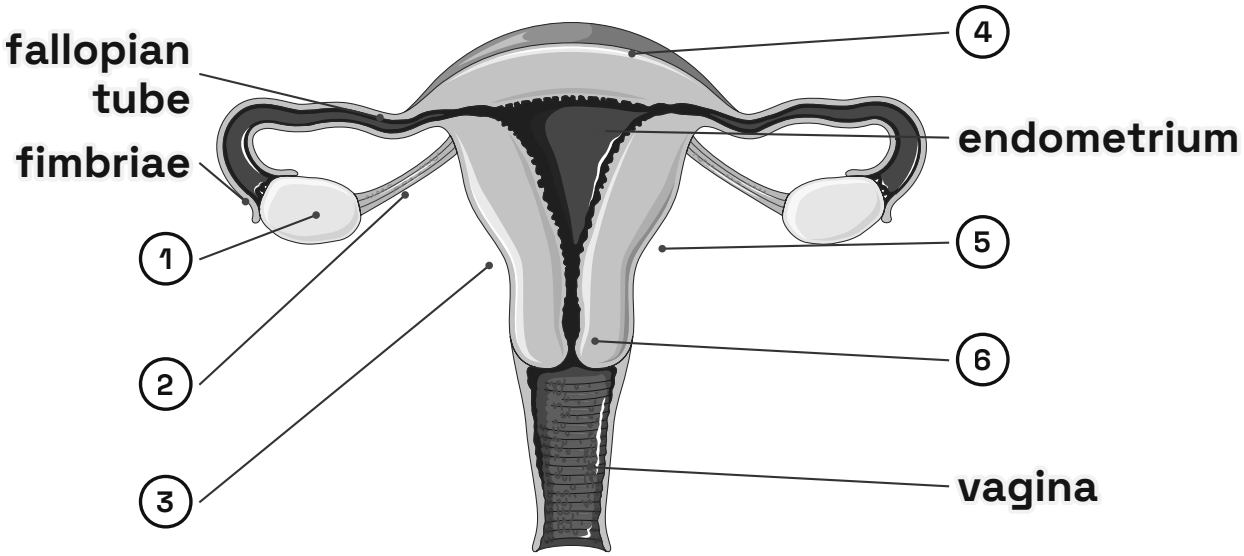
Fill in the blanks with words from the box. Two words in the box are not needed. Each blank carries 0.5 mark.

corpus albicans	corpus luteum	epididymis	Leydig	LH surge	menarche	prostate	seminal vesicles	Sertoli	vas deferens

Testosterone is secreted by the interstitial cells of _____ between the seminiferous tubules. The tall cells in the tubules that nourish the developing sperms are the _____ cells. Sperms mature and are stored in the coiled tube on the back of each testis, the _____. Most of the volume of semen comes from the _____. The yellow body formed from the empty follicle after ovulation is the _____. The first menstruation, at puberty, is the _____. The flood of LH that triggers ovulation is the _____. The muscular tube that carries sperms from the epididymis towards the urethra is the _____.

2 Label the diagram [3]

The diagram shows the uterus, fallopian tubes and ovaries from the front, the uterus and vagina cut open. Write the names of the parts 1 to 6. Each carries 0.5 mark.



1. _____ 2. _____

3. _____ 4. _____

5. _____ 6. _____

3 Multiple choice [5]

Choose the correct option for each of the following questions.

i. Which gland makes most of the volume of semen? [1]

a. the seminal vesicles
b. the prostate
c. the Cowper's glands
d. the testes

ii. Which female organ is homologous to the male's scrotum? [1]

a. the clitoris
b. the labia minora
c. the labia majora
d. Bartholin's glands

iii. Which hormone controls the secretory phase of the menstrual cycle? [1]

a. FSH
b. estrogen from the Graafian follicle
c. progesterone from the corpus luteum
d. oxytocin

iv. What keeps the corpus luteum working in the first weeks of a pregnancy? [1]

a. FSH from the pituitary
b. estrogen from the follicle
c. hCG from the embryo
d. oxytocin

v. After a vasectomy, what does the semen lack? [1]

a. fructose
b. the prostate's fluid
c. sperms
d. the Cowper's glands' mucus

4 Short answers [9]

Write short answers to the following questions.

a. Why do the testes hang outside the abdomen in the scrotum? [2]

b. What is the fate of the corpus luteum if the egg is not fertilized, and if it is? [2]

c. A pregnancy test strip turns positive. Which hormone has it detected, where does it come from, and why does its presence matter to the pregnancy? [2]

d. Describe the structure of a seminiferous tubule. **[3]**

5 Long answers **[8]**

Write long answers to the following questions.

a. Describe the phases of the ovarian cycle and the hormones that control them. **[4]**

b. Describe the phases of the menstrual cycle and link each to what is happening in the ovary. **[4]**

6 Think **[3]**

A vasectomy and removal of both testes (castration) both stop a man from fathering children. Explain why only castration also changes his secondary sexual characters, such as his beard and voice.

7 Activity: A 28-day cycle on a calendar

(not marked)

Draw a strip of 28 boxes, one for each day of a typical cycle. Shade and label on it the menstrual, regenerative, proliferative and secretory phases, and mark the day of ovulation. Below it, write which hormone is highest in each part.

Days	Phase of the uterus	Phase of the ovary	Main hormone
1–5			
6–14			
about 14			
15–28			

Why can a cycle be 21 or 35 days long and still be normal?