

Subject: Science

**Level: Form 3
(Biology)**

**Topic: The Reproductive
System**

Key Points

- Reproduction allows for the continuation of the species.
- The female reproductive system consists of ovaries, uterus, fallopian tubes, cervix, and vagina.
- The male reproductive system consists of testes, scrotum, sperm ducts, and penis.
- Ovaries produce ova and the testes produce sperms. These are specialized reproductive cells.

What is reproduction?

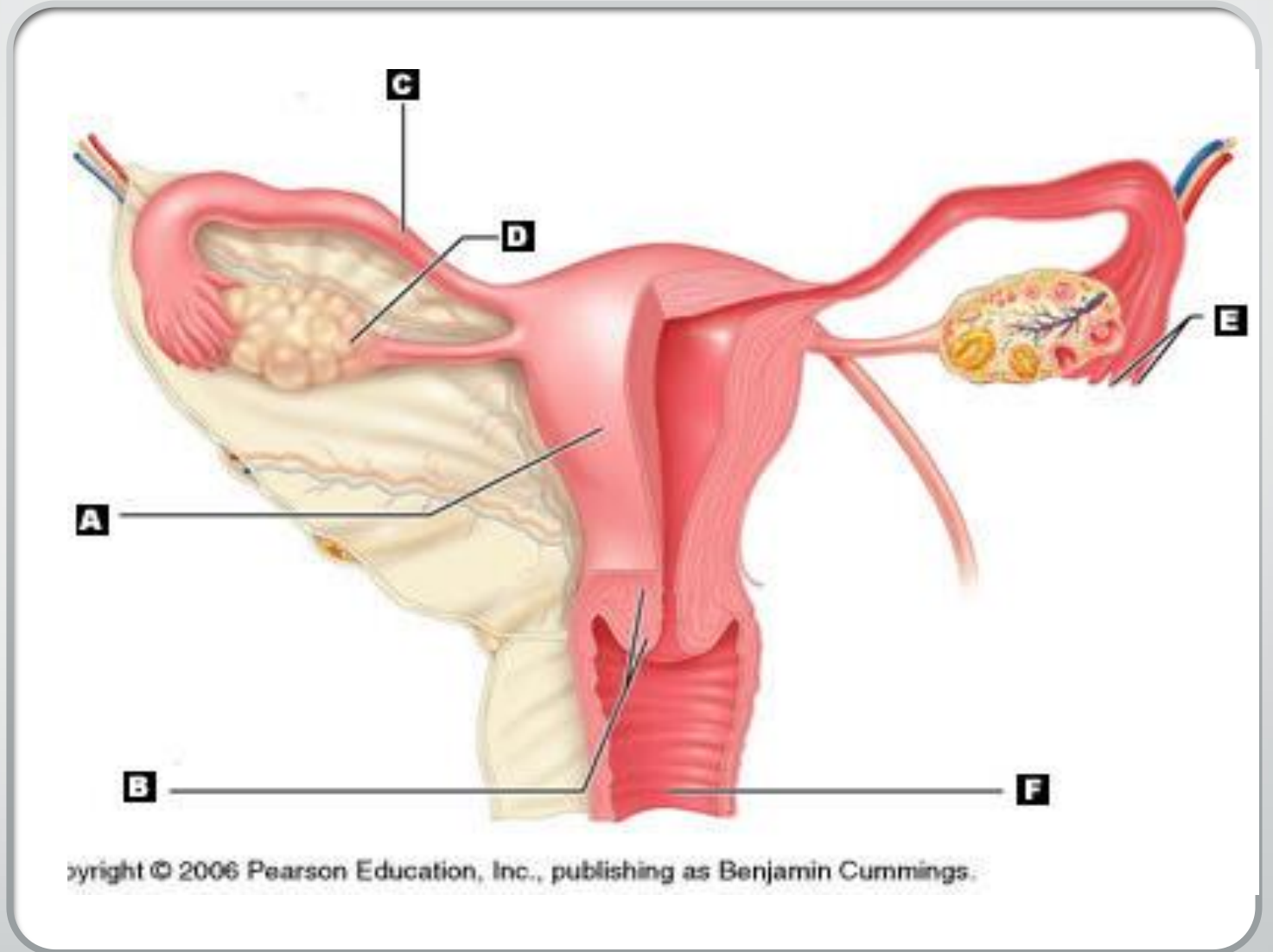
Reproduction is the biological process by which

- new individual organisms – "offspring"
- are produced from eggs and sperms from their "parents".

Female Reproductive System

- A. Uterus
- B. Cervix
- C. Fallopian tube/Oviduct
- D. Ovary
- E. Fimbriae
- F. Vagina

CPDD/SCIENCE/2020



Functions of the parts – Activity 1

Match the structure with its correct function.

- | | |
|---------------------------|--|
| 1. Uterus | a. Produce eggs and hormones |
| 2. Fallopian tube/Oviduct | b. Allows for menstruation, intercourse and child birth. |
| 3. Vagina | c. Nurturing the fertilized egg/houses the fetus till childbirth. |
| 4. Ovary | d. Fingerlike projections that guides the egg from the ovary into the fallopian tube. |
| 5. Cervix | e. Cavity that transport male sperm cells to the egg, provide a suitable environment for fertilization |
| 6. Fimbriae | f. Allow flow of menstrual blood from the uterus into the vagina, and direct the sperms into the uterus during intercourse |

Functions of the parts – ANSWER KEY

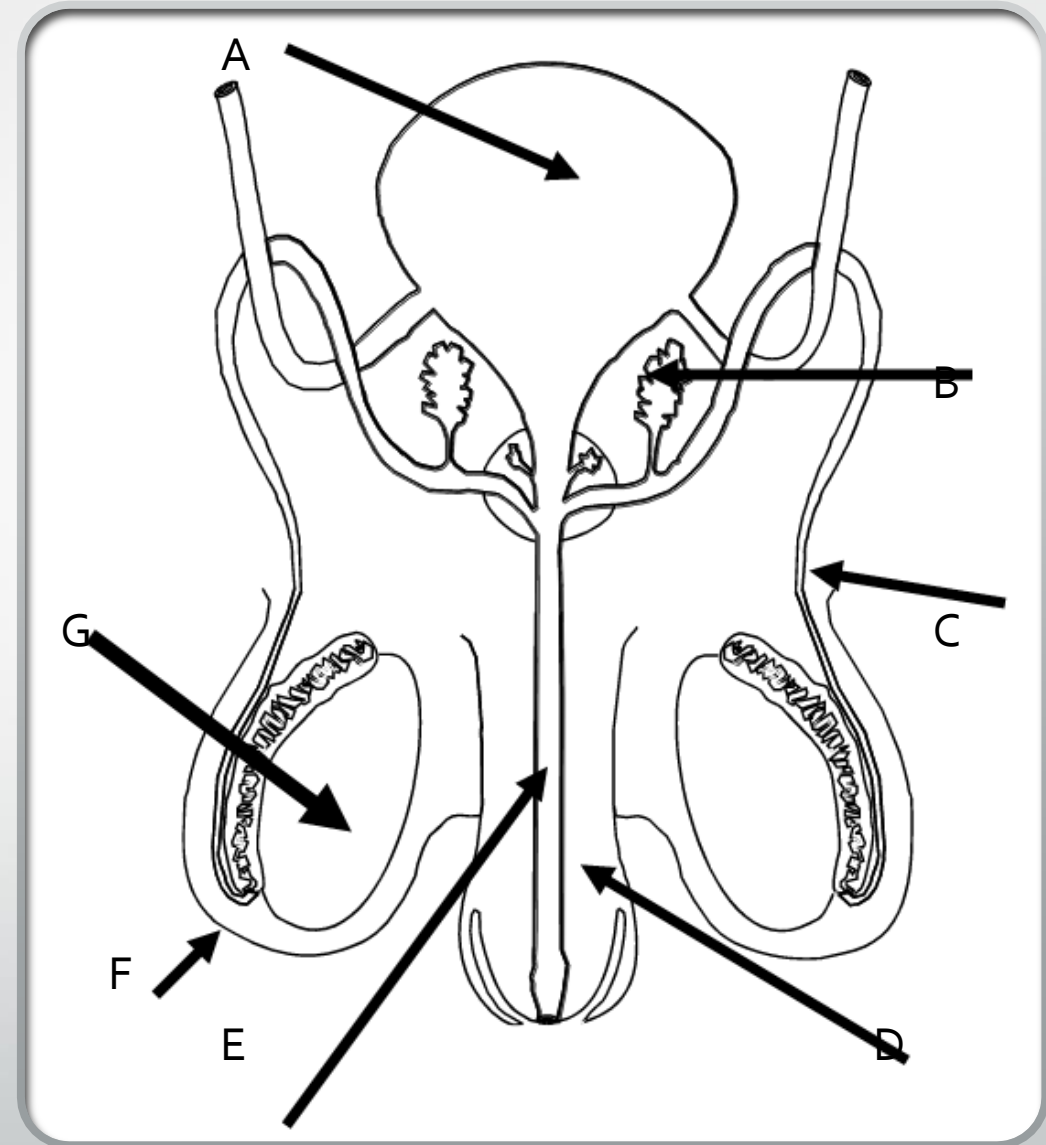
Match the structure with its correct function.

-
1. Uterus
2. Fallopian tube/Oviduct
3. Vagina
4. Ovary
5. Cervix
6. Fimbriae
- a. Produce eggs and hormones
- b. Allows for menstruation, intercourse and child birth.
- c. Nurturing the fertilized egg/houses the fetus till childbirth.
- d. Fingerlike projections that guides the egg from the ovary into the fallopian tube.
- e. Tube that transport male sperm cells to the egg, provide a suitable environment for fertilization
- f. Allow flow of menstrual blood from the **uterus** into the vagina, and direct the sperms into the **uterus** during intercourse

Male Reproductive System

- A. Bladder
- B. Seminal vesicle
- C. Vas deferens/Sperm duct
- D. Penis
- E. Urethra
- F. Scrotal sac
- G. Testis

CPDD/SCIENCE/2020



Functions – Activity 2

Match the structure with its correct function.

- 1. Bladder
 - a. Produce and store fluid that will eventually become **semen**.
- 2. Seminal vesicle
 - b. A tube that allow the transit of **sperm** from the testicles.
- 3. Vas deferens/Sperm duct
 - c. Ejaculation of semen and carries urine from the bladder to outside of the **body**.
- 4. Penis
 - d. A protective sac that acts as a climate control system for the **testes**.
- 5. Urethra
 - e. To produce gametes/sperm, and to secrete **hormones**
- 6. Scrotal sac
 - f. Serves as a pathway for the exit of semen and urine.
- 7. Testis
 - g. To store urine.

Functions – **ANSWERS**

Match the structure with its correct function.

- 2.Seminal vesicle
 - a. Produce and store fluid that will eventually become **semen**.
- 3. Vas deferens/Sperm duct
 - b. A tube that allow the transit of **sperm** from the testicles.
- 4 Penis
 - c. Ejaculation of semen and carries urine from the bladder to outside of the **body**.
- 6 Scrotal sac
 - d. A protective sac that acts as a climate control system for the **testes**.
- 7 Testis
 - e. To produce gametes/sperm, and to secrete **hormones**
- 5 Urethra
 - f. Serves as a pathway for the exit of semen and urine.
- 1.Bladder
 - g. To store urine.

Assessment

- 1. Name the organ in the male and female that produces hormones.
- 2. What organ in the male has a similar function as the oviduct in the female reproductive organ?
- 3. Sex hormones in males and females produce secondary sexual characteristics. Identify 2 sexual secondary characteristics during puberty that occur in both the males and females.(REVISION)
- 4. Name the male and female sexual hormones.(REVISION)
- 5. List the male parts, in order, from where sperm is produced to when released in the vagina.

Answers

1. Organ in the male – Testis Organ in the Female – Ovary
2. The vas deferens or sperm duct has the similar function as the oviduct in the female.
3. Two secondary sexual characteristics in males: **(any two from below)**
 - Production of sperm,
 - Growth of body hair, including underarm, abdominal, chest hair and pubic hair.
 - Growth of facial hair.
 - Enlargement of larynx (Adam's apple) and deepening of voice.
 - Increased stature; adult **males** are taller than adult females, on average.
 - Heavier skull and bone structure.

Answers continued

3. Two secondary sexual characteristics in Females (any two from below)

- widening of hips,
- production of hair under arm and pubic areas,
- onset of menstrual cycle,
- increased hormone production,
- enlargement of breast.

4. Male sex hormone – Testosterone

Female sex hormone – Oestrogen and Progesterone

5. Order from production to release of sperm –

testis → sperm duct → seminal vesicle → urethra → penis → vagina

References

- Female Reproductive System. Pearson Educational Inc.. (2006) Retrieved from <https://www.thinglink.com/scene/484287480716066818>
- Male Reproductive System. (2020) Retrieved from <https://quizlet.com/309507003/male-reproductive-system-front-view-diagram/>