

**PENANG SANGAM HIGH SCHOOL  
P.O.BOX 44, RAKIRAKI  
LESSON NOTES**

**School: Penang Sangam High School**  
**Subject: Agricultural Science**  
**Year/Level: 10**

**Week 21**

<b>Strand</b>	Strand as10.4 livestock production
<b>Sub Strand</b>	Sub – strand as 10.4.1 poultry
<b>Content Learning Outcome</b>	AS 10.4.1.3. DESCRIBE THE REPRODUCTIVE SYSTEM OF A MALE AND FEMALE BIRD

**LESSON 1 THE REPRODUCTIVE SYSTEM OF POULTRY BIRDS**

*LESSON OUTCOME At the end of this lesson the student will: 1. identify the male and female reproductive parts of a poultry bird 2. state the functions of each reproductive part*

**VOCABULARY**

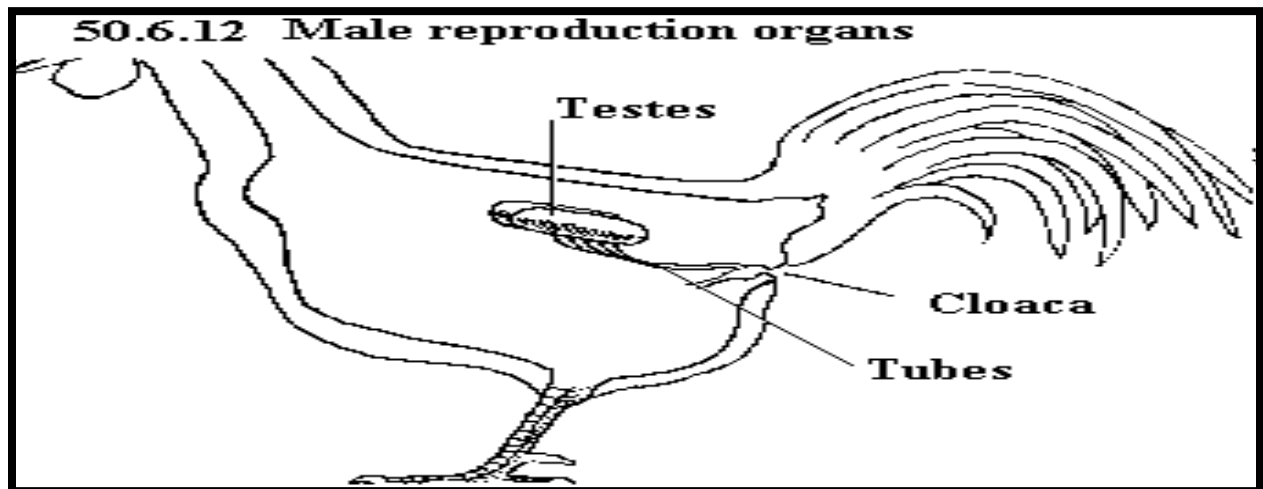
Oviposition egg laying process in birds

Ovulation releasing of the egg from the

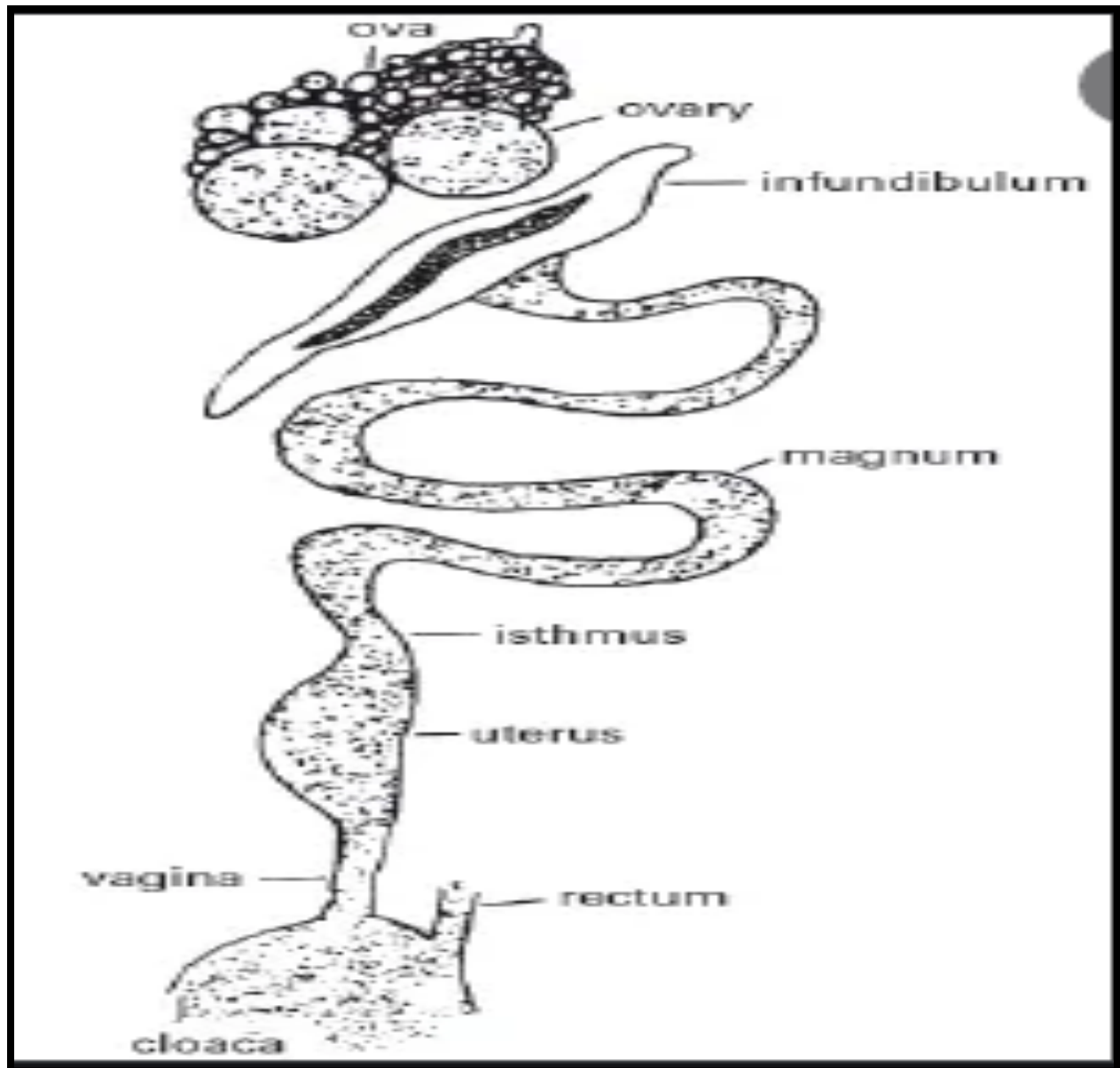
ovary Clutch pattern of laying eggs

Calcification laying calcium salts which is the shell of eggs.

**NOTES THE MALE REPRODUCTIVE SYSTEM**



PARTS	FUNCTIONS
Testes	- Site of sperm and hormone production
Tubes (vas deferens)	- Stores sperm - Carries sperm to the cloaca
Cloaca	- Extend out to deposit semen in the female reproductive tract.



*The reproductive system of a chicken hen is made up of two parts: **the ovary and the oviduct.***

*The total time a hen's body takes to transform a yolk into a fully developed egg and lay that egg is about 25 to 26 hours.*

*Typically, about 30 to 75 minutes after a hen lays an egg, the ovary releases the next ovum.*

### **PARTS AND FUNCTIONS OF THE FEMALE REPRODUCTIVE SYSTEM**

PART	DESCRIPTION	FUNCTION
Ovary	Is a cluster of developing yolks or Ova	- Releases mature yolk or Ova
Fimbrium	Funnel shaped	- Guides yolk into the infundibulum
Infundibulum	9 cm long	- Ovum is fertilized here - Chalazae is also added - Searches and engulfs mature yolks
Magnum	33cm long	Albumen is added
Isthmus	10cm long	Membranes are added
Uterus	10-12cm long	Shell is added (calcification)
Vagina	12cm	Bloom is added (to make the egg shine, helps to keep out bacteria)
Cloaca	Common opening for digestive, reproductive tract.	Egg is laid through the cloaca.

### **Egg clutches**

*[The pattern of laying eggs]*

- ✓ Hens lay eggs in a certain pattern called a clutch.
- ✓ For example, a hen may lay an egg on each of four consecutive days and on the fifth day fail to produce an egg.
- ✓ Generally, each successive egg of a clutch becomes smaller and smaller.

## Student Activity

State either the statement is true or false

1. Oviposition is the egg laying process in birds [Chickens]. [T / F]
2. Ovulation is the releasing of the egg from the infundibulum. [T / F]
3. Testes is the Site of sperm and hormone production. [T / F]
4. vas deferens does not Stores sperm and Carries sperm to the cloaca. [T / F]
5. Ovary Releases mature yolk or Ova. [T / F]
6. Magnum is about 33cm long. [T / F]
7. Uterus is about 10-12cm long and it is where the Shell is added. [T / F]
8. A hen may lay an egg on each of four consecutive days and on the fifth day produces five eggs. [T / F]
9. The poultry birds have a male and female reproductive system and each part play an important role. [T / F]
10. The female reproductive system has an important role in producing sperm [Semen]. [T / F]

**THE END**