

Artificial Ovaries – KEY Virtual Ovarian Histology Lab Worksheet

Name: _____ KEY _____

Date: _____

Directions: As you walk through the “Virtual Ovarian Histology Lab”, take notes and answer the following questions.

Short Answers

1. What is the name of the follicle on the first slide that you see (A)?

Primordial Follicle

- a. What shape are the granulosa cells from this phase?

Squamous (flat)

2. What is the name of the follicle on the second slide that you see (B)?

Primary Follicle

- a. What is the zona pellucida?

A glycoprotein coating that is a recognition site for sperm cells

- b. What type of receptors are being developed on this cell?

FSH (follicle-stimulating hormone) receptors

3. What is the name of the follicle in (C)?

Secondary Follicle

4. At the stage shown in (C), granulosa cells convert from

_____ Androgens (male hormones) _____ into _____ Estradiol (precursor for estrogen) _____

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5. What is the name of the follicle in (D)?

Tertiary (Graafian) follicle

6. What surrounds the oocyte in the phase shown in (D)?

Corona Radiata

7. What is the name of the phase labeled in (E)?

Ovulation

8. What is the name of the follicle in (F)?

Corpus Luteum

a. What hormone does this structure produce?

Progesterone

b. Why is this hormone produced?

To maintain the lining of the uterus so that a fertilized egg has something to attach to

9. What is the name of the structure in G?

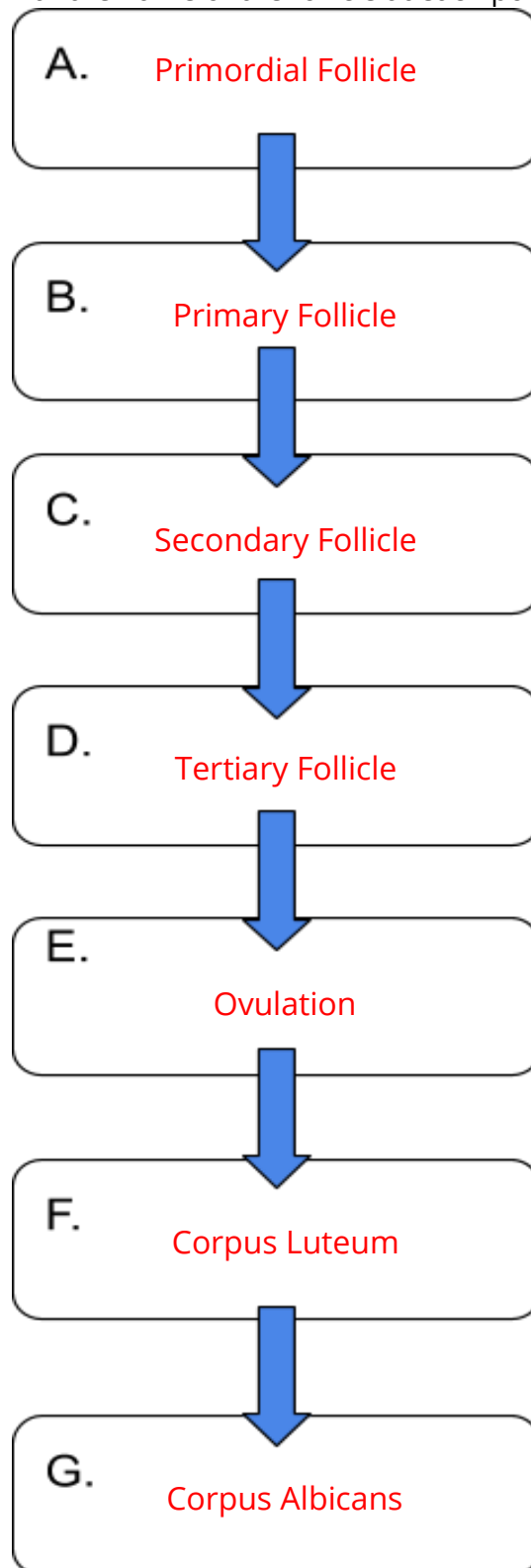
Corpus albicans

a. What is this structure made out of?

Collagen

Fill in the Blanks

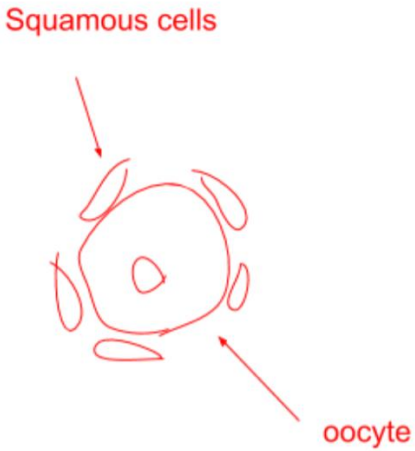
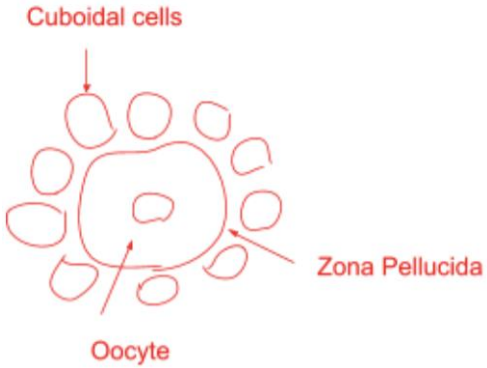
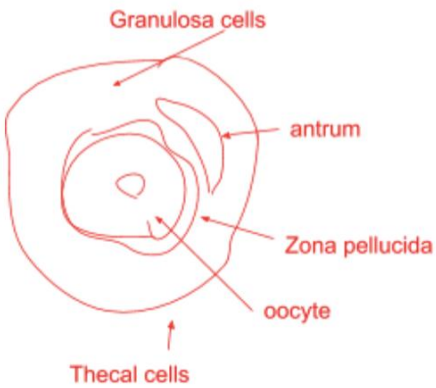
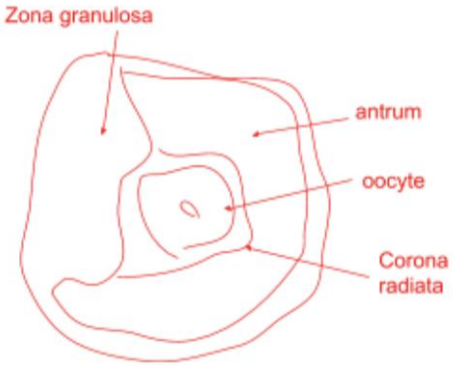
in the blanks regarding with the name of the follicle at each point of the ovarian cycle.



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Open Answers

Draw and label the follicles from the first 4 stages of the cycle (before part E).

	
<p>Name: Primordial Follicle</p>	<p>Name: Primary Follicle</p>
	
<p>Name: Secondary Follicle</p>	<p>Name: Tertiary Follicle</p>

Short Answers Pt. 2

1. What is the name of the condition on the *blue* (i) slide?

Polycystic Ovary Syndrome (PCOS)

a. What stage of the ovarian cycle is this condition most like?

Corpus Luteum

2. What is the name of the condition on the *purple* (ii) slide?

Ovarian Cancer

a. What is metathesis?

When a tumor cell has spread to other parts of the body

3. What is the name of the condition on the *green* (iii) slide?

Endometriosis

a. Where does this foreign tissue come from?

Uterus

4. What is the name of the condition on the *red* (iv) slide?

Infertility due to cancer treatments

a. What does cytotoxic mean?

Poisonous to cells