Mark:

/60

Name: Answer key

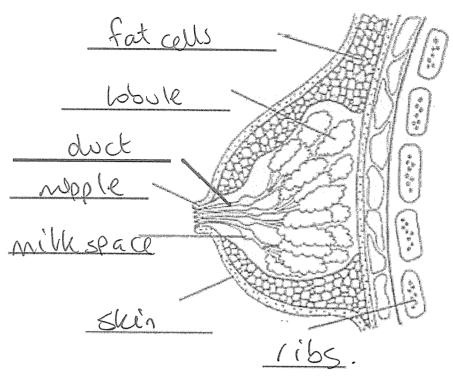
Teacher:\_\_\_\_

## PART A: MULTIPLE CHOICE

- 1. Chose the **incorrect** statement regarding implantation.
  - During fertilization the egg is fertilised by a sperm cell in the uterus. X
  - b. Muscular contractions and cilia in the fallopian tube mores the zygote along.
  - c. A morula is a solid ball of cells.
  - d. The blastocyst sinks into the endometrium and firmly attaches to the wall.
- 2. Choose the incorrect statement regarding the placenta.
  - a. The placenta is a membrane that develops around the foetus. 🗸
  - (b.) The placenta is a combination of foetal and paternal tissue. 🗸
  - c. The umbilical cord attaches the placenta to the foetus.
  - d. Two umbilical arteries carry blood to the placenta from the foetus.  $\checkmark$
- 3. What gives the placenta a large surface area?
  - (a.) Chorionic villi.
  - b. Endometrium.
  - c. Umbilical arteries.
  - d. Amniotic fluid.
- 4. Choose the incorrect statement. During week 4 of embryonic development;
  - a. The embryo is under 4mm long.
  - (b) Eyes appear as slits.
  - c. Tail is evident.
  - d. Brain begins to form.
- 5. Vernix is;
  - a. The substance that is discharged from the umbilical cord after birth.
  - b. The placenta and umbilical cord discharged after birth.
  - c. The fine hairs that cover the foetus.
  - (d.) The waxy substance covering the baby at birth.

1) Label the following diagram of a breast

(4 marks)



2. Fill in the missing words.

(5 marks)

## Lactation

a. When the baby sucks on the sensitive nipple, a \_\_we ssage \_\_ is sent along the woman's nerves to her brain.

b. The brain sends a message to the <u>pititary gland</u>

c. This produces <u>Prolachia</u> (hormone).

d. The hormone travels in blood to breasts and signals milk cells to produce milk.

## Milk let-down reflex

a. Baby's sucking on mother's nipple also causes a \_\_\_\_\_\_ to be sent along woman's nerves to her brain.

b. The brain sends a message to the <u>Pititan</u> gland.

c. This produces oxytous (hormone).

d. This hormone travels in blood to breasts and causes the \_\_\_\_\_ around milk-producing cells and ducts to <u>Contract</u>, squeezing <u>milk</u> out of the nipples.

italisem ki	Sound the state of
Change	Description
Puerperium	> uterus contracts ()
	> Abdomen flattens()
Discharge of fluid from uterus	> Fluid is mixture of blood and hissue remains
	- 30 33 ACT - 244 TO A TO BUT AS 300 CLOS PE
Blood volume	gradually returns to normal
Pulse	> Slows down
Emotional changes	* postnatal depression may occur
Menstrual cycle	Begins again

3a) List TWO advantages of women	n using the combined pill as a method o	of birth control. (2 marks)
very reliable	-unrelated to sexu	al activity
Regular periods		Imark
- reduced inclidence	e of overion Euteri	ne concer per answer
		Production of the second of th
3b) <b>List</b> TWO disadvantages of wom	nen using the combined pill as a metho	od of birth control. (2 marks)
- Regular doctors	prescription require	d a marky to bus sent the 3
. Pill must be tak	e do ilu	

-no protection against stis

1 mark per answer

technologies.	.,	•
State TWO differences between the two types.		(4 marks)
- IVF	1 GIFT	(
* Mixture isjected into	* mixture injected int	0
uterus	fallopian Ubes (T	
* Mans sperm fertilises	* Egg & SPOIM are mi	xed
egg outside of her body	togethe but side of body (1)	he
	body ()	
5) Explain how fetoscopy works.		
What kind of problems can it detect? Give a speci-	fic example.	(3 marks)
- Small, telescope instrumen	f is put into uterus to	۷
observe appearance of		
- can detect conditions	1 1 /	1 Dalate
or physical abnormal		
6) <b>List</b> two internal organ changes that occur to bo	oth males and females during adolescence	(2 marks)
- Heart almost doubles		(2 marks)
- total blood volume i	rcreases Ani	$\overline{\gamma}$
- total blood volume i's lungs i'ncrease in size	2 capacity	
7) Match the type of motor development with its	description. Draw a line to connect them.	(2 marks)
Cephalocaudal pattern Development of movements.	of large muscle movements before finer mu	scle
Proximodistal pattern Development of	outwards.  - ( Fo ( 00)	ich
Gross to specific pattern Development f	rom head to foot	ect.

4) In-vitro fertilisation (IVF) and gamete intrafallopian transfer (GIFT) are two types of assisted reproductive

## PART C: EXTENDED ANSWER

7) A great number of changes occur to the baby's circulation after birth. Compare the differences of the baby's circulation before birth and after birth. (16 marks)

You must include information on the following four points.

Lungs, ductus arteriosis, foramen ovale and ductus venosus.

		Before birth	After birty
lungs	-Flattened	(1)	- volume increases
	- very little blo		- Blood flows through
	through then	n (1)	lungs
			- Air moves in & out
			of lungs (ANY2)
N. clis	- 11000	(D)	
verosus	- Allows 51000	to pabon	-closes off (1)
40,000	liver		- allowing blood to
		i i	go to live
Duchs	- Allows bloc	od to supass	- Blood flow through
arteriosus	s the longs		vessel decreases (1)
			- Eventually breaks down
	.(1)		
Foramer			-Pressure in left
ovale	blood to	flow from	atrium increases
	right atc	ium to	pushing flap of
	left atrium	n ()	foramen ovale
			closed (1)

8) Choose an STI from the following list; describe it, describe what causes it, two symptoms and treatment. (8 marks)

Gonnorrhoea, syphilis, chlamydia, genital herpes, HIV/AIDS

		. , , =		
	Descripti	on car	use sympt	ons, treatme
<del></del>				
,	common sexua	Ila Radecia	0 100 8 00	io
Consorrhola	transmitted disease	3 Dacto la	-Burning & Pa	ing Antibiotics
	disease	neisserie	a la Discharge C	rom
	- SPNGS SI CONT	Gonorrhoe	ar penis or vag	ing
	-spread by containing waging peris	ICF	- sore throat	- Inle
	ragina peris	or	tender or sh	30101
	anus'		- Panful sexual	
			intercourse - Fever (fenal	es
		P. Jasia		
Syphilis	sexually transmi	7	1- cash	200111010 1663.
•	diseased	treponend	a - rash on some	
	-con case dean.	pallidur	in math, vagin	3
1	if not treated		anus	1
			- fever, suoller	
			lymph glands	
			sore throat, har	
		0 1 - 1		
Chlanydia	Common sexually	-Bacteria	-vaginal discharg	e - antibiohics
	transmitted diseas	ie chlamydia	- burning when urinating	
	can damage womens		urinating	
*	reproductive organs		fever vonition	
	J		Pain during interest	e
			I-men-discharge for	
			pais, burning when winating	
			Blisters on or	
	sexually transmitted	hespes	around sonity	No treatment
renital herpes	diseased	simplex	- sores in genital	to wreit
VIO PCS			e on lips	- antivalmedications
		-sexually	c os i ilips	can help.
				can help.
				α, .
	one of most deadly	Δ.	infections	No we
HIV (AIDS	diseases in			
	human history			antire trovical
				treatment
	(ustra		()	
	Mahress	(2)	(2)	Con slow down
	Causes immre system ceahness (2)			(3)
	(4)			