### 11 HUMAN BIOLOGY REPRODUCTION TEST

			770
	Name: Msherkly Te	eacher:	Date:
1)	The milk let-down reflex is due to the act	tion of which hormone?	
a) b) c)	prolactin 3- production not le oxytocin prostaglandins	et down.	
d)	oestrogen		
2)	Which sequence of development is the n	nost likely for humans?	
-)	vviiion eequenee of aevelopment is the in	need interly for training.	
	grasps and shakes objects; eats unaided grasps and shakes objects; picks up objects unaided; grasps and shakes objects walks	ects between thumb and for	refinger; walks.
d) •	eats unaided; grasps and shakes objects	s; picks up objects between	thumb and forefinger.
3)	Menarche is the		
a) b) d)	end of the fertile period in women onset of puberty in girls onset of menstruation in girls rapid growth at puberty		
4)	Which of the following hormones causes males?	development of secondary	sexual characteristics i
a) b) d)	follicle stimulating hormone oestrogen testosterone Luteinizing hormone		TELEVILLES
5)	The normal child will begin to walk at		
a) b) c) d)	2 years 15 months 3 months 2 ½ years		

#### 6) Which statement is true?

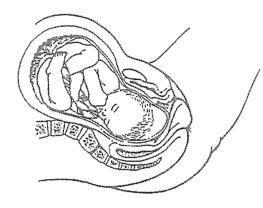


Where the unbiblical cord attaches to the chorion, the placenta develops

The upper most layer of the embryo is the endoderm 
The embryonic disc separates the chorion cavity and the yolk sac

The ectoderm will develop into the gut, trachea, lungs and liver. &

7) The diagram below shows the cervix almost completely opened and the amnion is bulging in the front of the head this is:

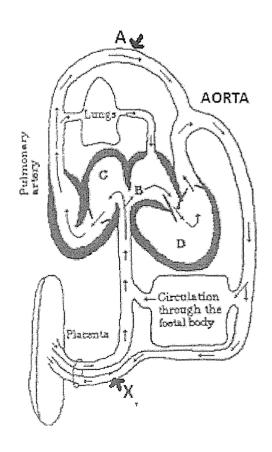




- (a) early in the first stage of labour
- b) early in the second stage of labour
- c) late in the first stage of labour
- d) late in the second stage of labour
- 8) Consider the diagram on the right.

#### Label A and X represent:

- a ductus arteriosus and umbilical artery
- b) umbilical cord and umbilical artery
- c) umbilical cord and umbilical vein
- d) inferior vena cava and umbilical vein
- 9) Which of the following substances are received by the pregnant mother from the foetus?
- Urea and Carbon dioxide
- b) Carbon dioxide and glucose 🧏
- c) Urea and amino acids 📡
- d) Amino acids and glucose 😽



10)	At what stage should a baby be able to crawl to another person?
a) b) d)	1 – 3 months <b>4</b> 4 – 5 months <b>5</b> 6 – 9 months 10-12 months
	The ovarian follicle secretes the hormone:  Progestore.
11)	The ovarian follicle secretes the hormone:
(a) (b) (d)	oestrogen / follicle stimulating hormone x progesterone / - fredomath progesterone luteinizing hormone x
12)	Which of the following pairs of sexually transmitted diseases are caused by viruses and are therefore difficult to treat?
a) (b) c) d)	Herpes and syphilis Acquired immune deficiency syndrome and herpes — Syphilis and gonorrhoea - Acquired immune deficiency syndrome and gonorrhea
13)	The stage of development illustrated on the right is called:
(a) b) c) d)	morula zygote embryo blastula
	3. What are the mise primary germ layer of continuous and name two features which develop from each. (6 marks)

#### SHORT ANSWERS

1. What secondary sexual characteristics would a physically mature adolescent present? List three for males and three for females. (6 marks)

	Female	, wale
	increased size of uters, Vulva	-enlargement of penis, scrotum, prostate gland
	development of manmary glands	1-900 m of pubic facial & chest how
ر	deposition of Lat	hair generally warser, darw, hear en
_	5 rowth of public hair	-increased musular development
_	how generally darker, heavier	- Shalders Groader
-	widering of pelvic girdle	-increased perspiration
	rapid growd	

2. Summarise the differences and similarities between spermatogenesis and oogenesis in the table below. (4 marks)

Similarities	Differences
one cell divides to produce	spenatogeresis -4
4 gametes (spenatosoa) by	small motile cells are
metosis	They do not have mich
	cytoplasm, have little stored
bogenesis-one cell	eregs.
divides to produce 4	
Colls by meriosis	ogenesis - only one viable
	thee polar bodies (non-viable)
	the over a cavines most of the cytoplasm from the original
	as m colle is very large in
	comparison to a spermatozoa.

3. What are the three primary germ layers of embryonic tissue and name two features which develop from each. (6 marks)

Endodern - ailenentagical, liver, parcreas, epithelium of urinary bladder, urethrab gall bladder. Epithelium of pharynx, auditory canal, larynx, traches, bonchi & lungs. Epithelium of Tonsils, parathyroid & thyrus glands, epithelium of ragina & associated glands.

Mesodos M - sheletal, smooth & cardiac muscus, cartilage, bone, blood, correct re ti soul, lymphoid tissue, erithelium of hicheys, vretos, varies, testes, dermis of shun.

Ectodern - epidernis of shin, havir, navis, glands of shin, sensory organs entire nervous system.

4. Label the diagram below. (4 marks) fallopian tube (uterine the) fimbriae 4b. What is the function of structure A. (1 mark) to produce ova (eggs) & to produce hormones 4c. What is the function of structure B. (1 mark) to help guide egg (our) (Into fallogian tibe after it is released by the ovary

## 5. Label the diagram below. (5 marks)

Vas deferens erectile tissue  wethra  foresun  testis  Aseminal vesice  prostate gland  cowper's grand  testis
5b. What is the function of structure A. (1 mark)
secretes thick fluid rich in Sugars - makes of
60%. volume of sever
5c. What is the function of structure B. (1 mark)  Secretes thin milky alkaline fluide - seconer  part of semen
5d. What is the function of structure C. (1 mark)
produces Sperm -

6. Answer the following questions using the table.

	Time Weeks	Developmental stages			
	0	Fertilisation Management of the second secon			
	1	Embryo reaches uterus. Implantation			
	2	Flat, 2-layered disc. Ectoderm and endoderm. Sac-like digestive tract, no mouth or anus. Umbilical cord forming.			
	3	3 layers present – ectoderm, mesoderm, endoderm. Beginnings of skeletal/nervous systems.			
K.	4 Simple 2-chambered heart, tail, gill pouches, limb buds. Muscular system forming, neu closing to form Spinal cord and brain.				
E S	Mouth, eyes, webbed fingers and toes, lungs and regions of digestive canal form				
臣	6	Cerebral hemispheres, face, ears form			
N N	7	Eyes open, tail disappears.			
FIRST TRIMESTER	8	All major systems formed. Now called a foetus. Ossification (replacing cartilage by bone) begins. Makes small movements, not yet felt by mother.			
RS	9				
	12	External genital organs developed			
ш	16	'Quickening' (movement) felt by mother. Heart can be heard.			
SECOND TRIMESTER	21	Heart rate 140 beats/min. Head hair appears. Skin glands produce white paste to protect delicate skin. Sleeps and wakes.			
SEC	25	Vigorous movements.			
THIRD TRIMESTER	30	Testes descend. Fat deposited. Fine hair (lanugo) covers head and body.			
오믵	34	Lanugo drops away. Takes up birth position. Head down usually.			
THI	38	Full term. Skin covered with cheese-like vernix caseosa. Uterus has moved down in pelvis. Baby's pituitary signals for birth to begin.			

6a. During what stage is the embryo/foetus the mos	st vulnerable to adverse effec	ts? (1 mark)
First trimester	empanavoA lo non	por th為 to Endstit
6b. During what stage and week does the embryo's First trimesk , week 7	tail disappear? (1 mark)	Condom
6c. During what stage/week do the fingers and toes	form? (1 mark)	
First trimester week 5	very reliable	Combined pill
and of posts of the daily		
7. Explain three reasons why breast-feeding is good	d for the baby and mother. (3	marks)
-milk is sterile	Land Paggag	Vasectomy
- balance of minerals	She described	
- antibacterial		
coally hand letters min & b.	المن و الله و و والور	

8. Label the diagram below. (2 marks)

(alveolar glaids)

(nill and)

nipple (opening milk space (lactiferars duct)

(milk stare)

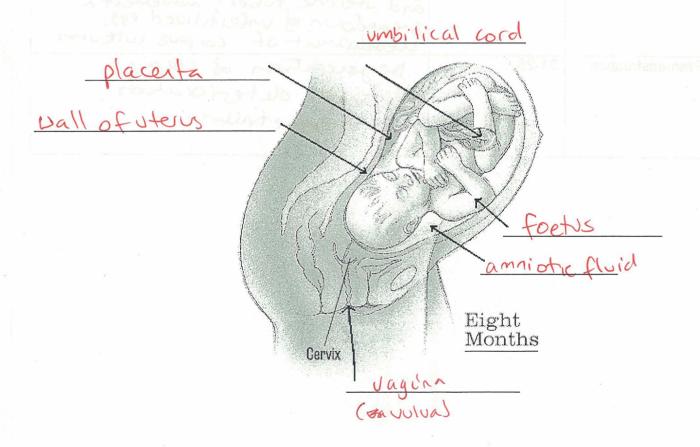
## 9. The table below shows methods of birth control, fill in the advantages and disadvantages. (8 marks)

Method of birth control	Advantages	Disadvantages
Condom	Easy to buy relatively cheap good protection against HIV and other STIS	May affect spontaneity, partness need to be motivated & cooperative
Combined pill	very reliable, negular periods reduced incidence of ovarian and sterine conver; unrelated to	regular doctors prescription required, pill must be taken daily
Vasectomy	permanet nearly 100% effective	cannot be easily reversed require a surgical procedure, specialist referend specialist
Natural Family Planning Methods	no side effects, no costs: a cceptaire to certain religious groups	poor reliability

10. Choose **ONE** of the following sexually transmitted infections and describe its cause, symptoms and treatment. (3 marks)

Gonorrhoea		
Chlamydia		
Suphilis	bonorshoea	, Chlamydia
pactoiem traperoma	- bacteria ao neisseria	- bade irm
Paudum	gonorrhoeae	chlanger trachomatis
alanga kana	ve de dismigrations	the division last consistence of the consistence of
- flat red such rash on se	ved - unusual dischare from vagi	discomfort the orination
f teet or palms of hands swollen dymph nodes	-can read to infortility in son	1 la - Vachal discharge 0
flus like illness	- white/yellow pus dishage from per	-antihio Tics
it - antibiotics	- antibiotics	

11. Label the diagram below. (3 marks)



# 12. The table below shows the major stages of the menstrual cycle, fill in the events for each stage. (5 marks)

Stage	Time span (days)	Major Event (in detail)
Menstruation	1-4	- uterine bleeding, a ccompanied by shedding of the endometrium
Preovulation	5-12	endometrial repair begins; development of overian follicle; uterine lining gradually thickers
Ovulation	13-15	follicle, releasing egg
Secretion	16-20	secretion of watery mous by glands of endometrium, Cervix and uterine tubes; movement & breakdown of unfertilized egg.  development of corpus luteum
Premenstruation	21-28	Degereration of corpus luteum, deterioration of endometrium