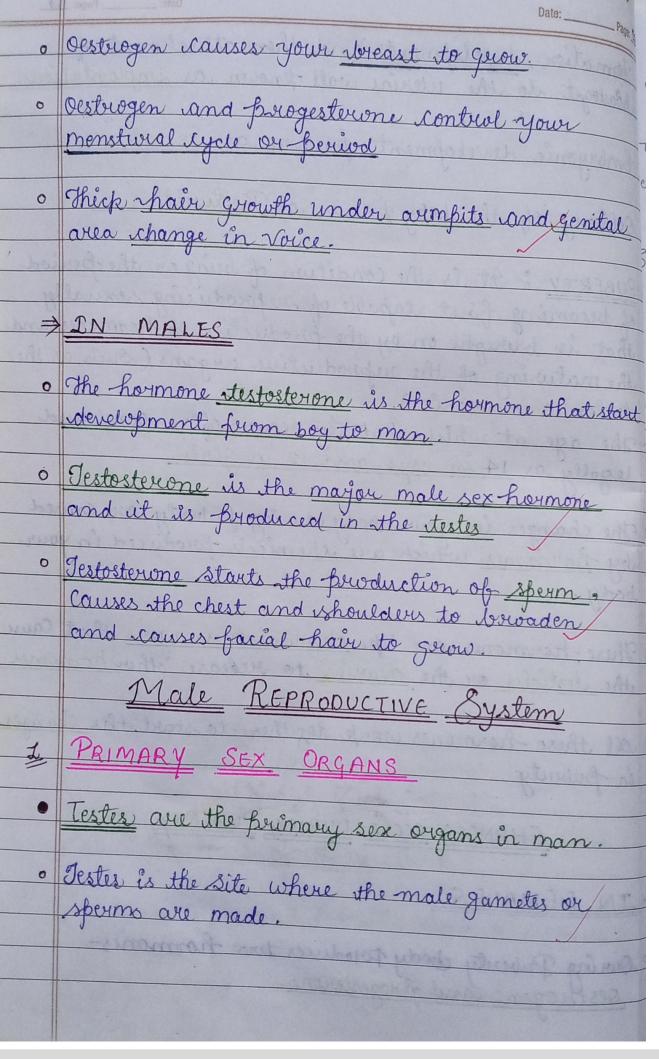
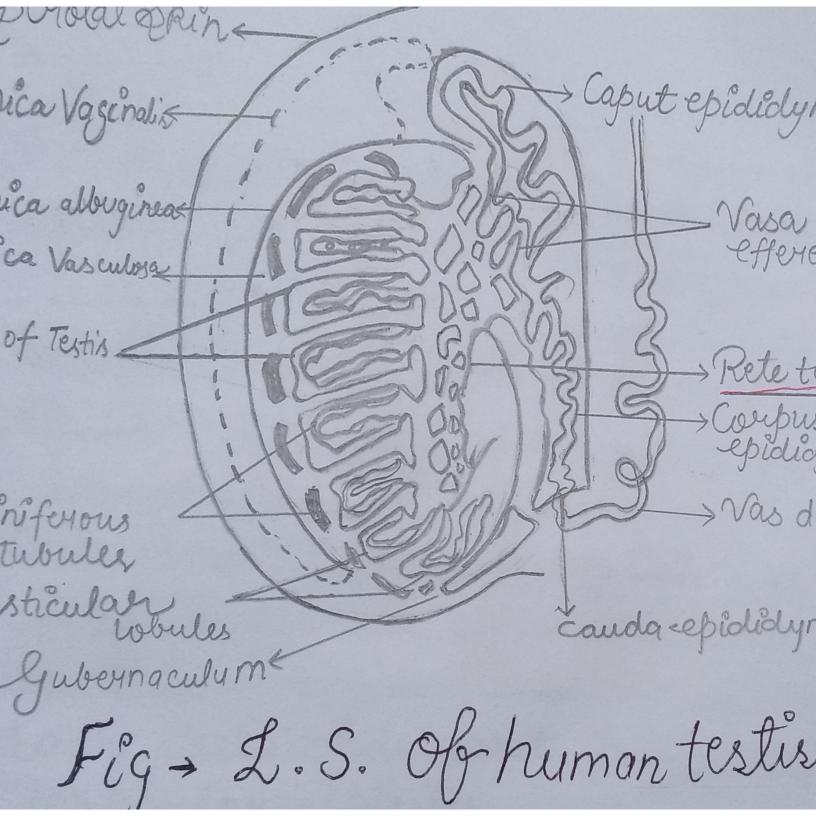
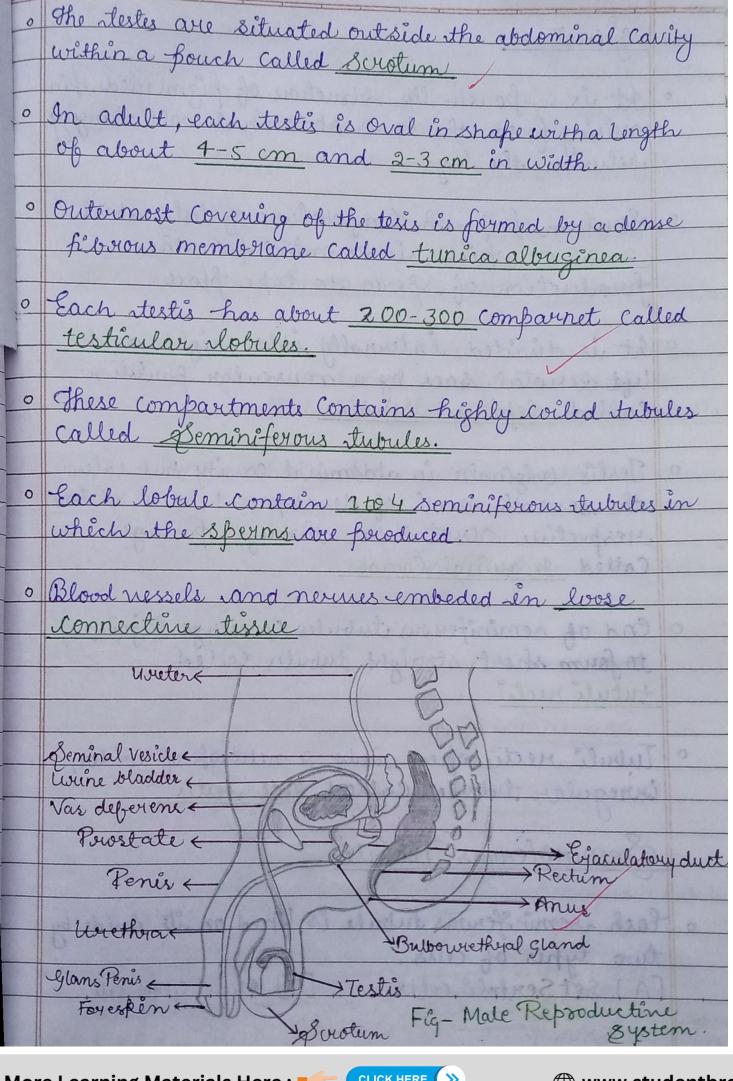


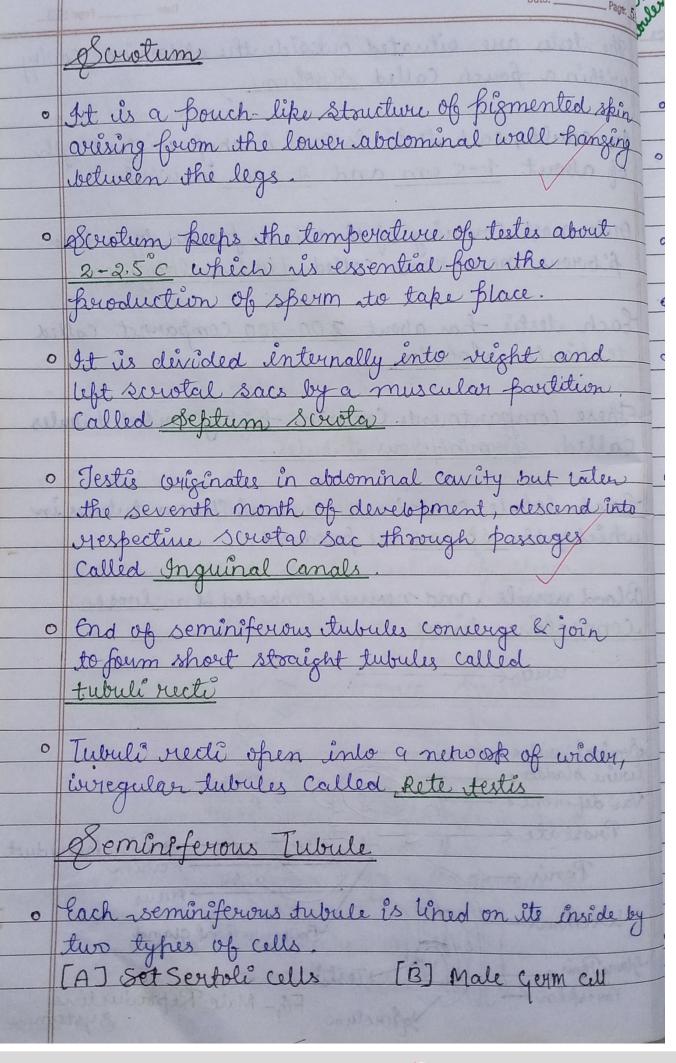
		Date: Page: 51
	0	Tomation, development and then attachment of
		blastocat to the utering wall have a To blant of
1		Formation, development and then attachment of blastocyst to the uterine wall known as Implantation.
m	0	Embryonic development fenoue as Gestation.
1		gnown as yestation.
1	0	Achien of the balanch of a con
-	0	Delivery of the baby known as Partwrition.
1		
		PUBERTY of Jet is the Condition of being on the Beriod
1		of becoming first capable of reproducing sexually
		that is brought on by the Broduction of hormones and
		PUBERTY i- It is the Condition of being on the Beriod of becoming first capable of reproducing sexually that is brought on by the production of hormones and the maturing of the reproductive organs (Such as the tester and ovaries).
		tester and ovaries).
	0	The age at which puberty occurs often construed
186		legally as 14 in boys and 12 in girls.
	0	The changes in your body during huberty are caused
1		The changes in your body dwing puberty are caused by hormones which are chemicals produced in your body.
		body.
		moto most constituent a home A sale sale, some 3
4	0	These hormones are like chemical messengers that Cause
		the testicles or the ovaries to release other homones
		and woulds or one groves no velocase of not normones
		SOU 15 - 6
	0	all these hormones work together to start the changes in fullerty.
-		in Julierly.
_		CHANGES OCCUR DURING PUBERTY
_		
	=	IN FEMALES
		short the operate
	0 1	Justino Pulverty chody Deladuces timo homones-
	100	During Puberty body populaces two homones- Destriogen, and Brogesterone.
1		osso, a gott, var, ar pringescourse.
100	- 11	

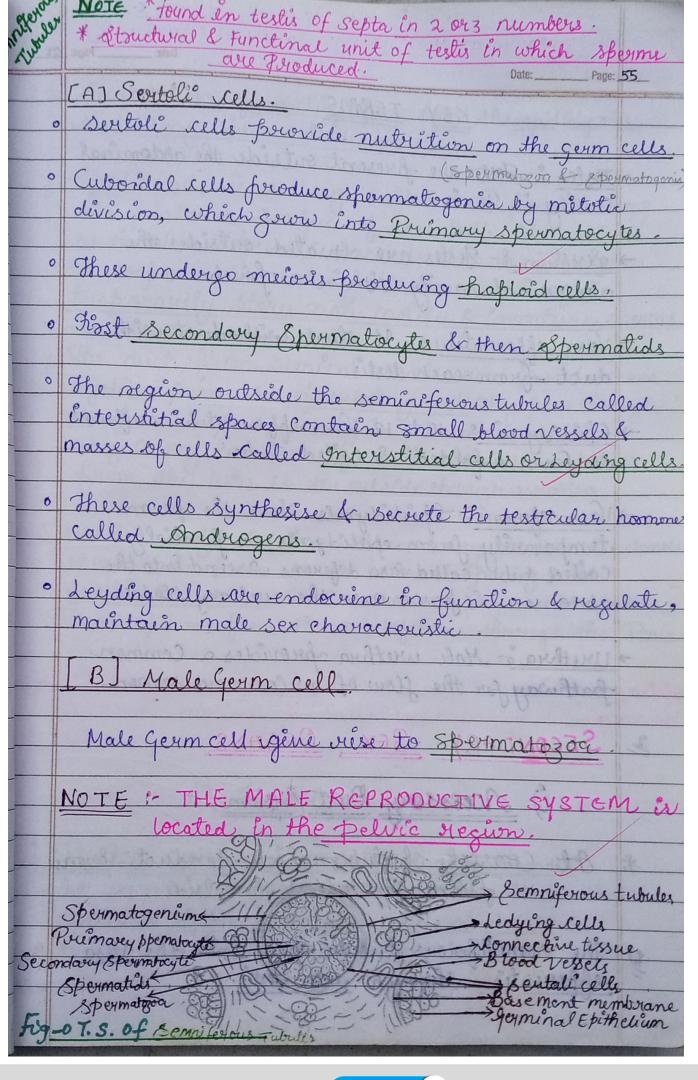


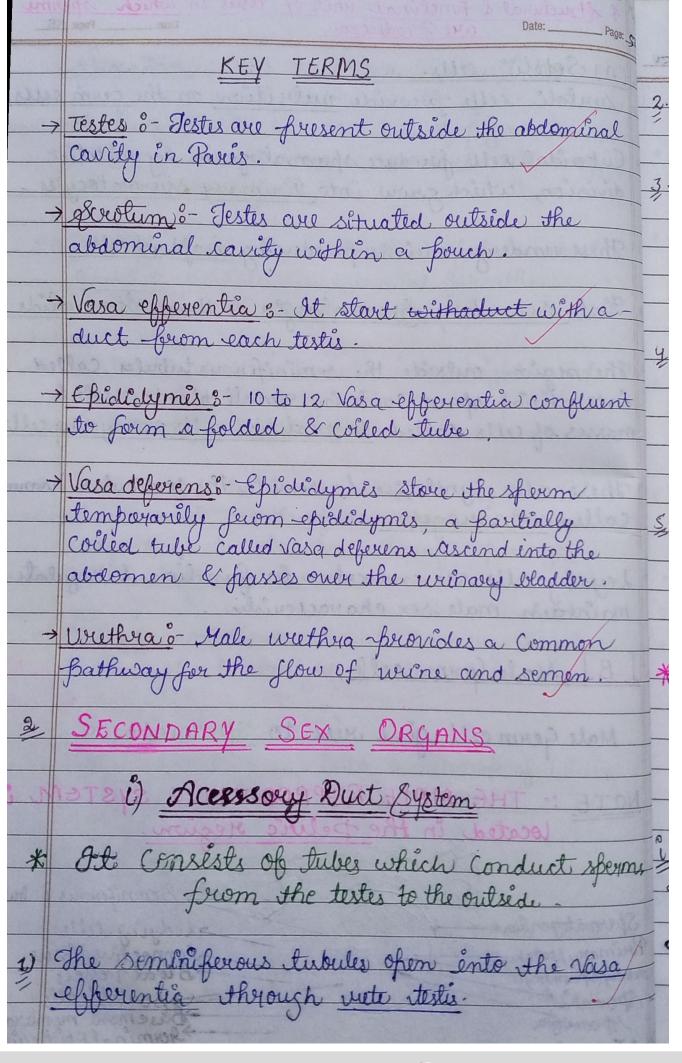












- 13	Date: Page: S7
2.	Several vasa efferentia open into the epideolymis
1	and carry sperm outside the testis.
WANDOWS WITH THE PARTY OF	
3.	Epididymis is a long, coiled tube friesent along
	Will from the office that and and the
	and the aldernary
	to loop over the Urinary bladder. Empididymis
	to loop over the uninary bladder. Empididymis temporarily stores non-motile & immotive sperms.
	AND THE PROPERTY OF THE PROPER
4	The duct from seminal vericle and rasa deferens
	together from the ejaculatory duct. They pass through
	the prostate gland and join the weether
	They carry secretions of seminal vesices & sperms
	forom the lestes to the outside through unethera.
5	Wiethera originates from the wernary bladder & extends
	through the penis to its external opening called
	withrat mealus. It carries wine from the bladaly
	and sperms from the vas deferens through the Penis
	V. Santa and Santa a
*	experims undergo physiological maturation acquising
	Sperms undergo physiological maturation acquiring increased mobility & fertilising capacity i.e. Capacitation in epidedynis.
	tion in epidaginis.
	ii) Accessory Glands
	is not brevent elements in the holy
P V	Frostate Gland: (Chestnut Shaped Gland)
0	Prostate Gland: (Chestnut Shaped Gland)  It secretes a milky, slightly alkaline fluid that  Contains lipids, enzymes, citric acid etc.
	Contains lipids, enzymes, citric acid etc
0	It is vellased during en éjaculation.

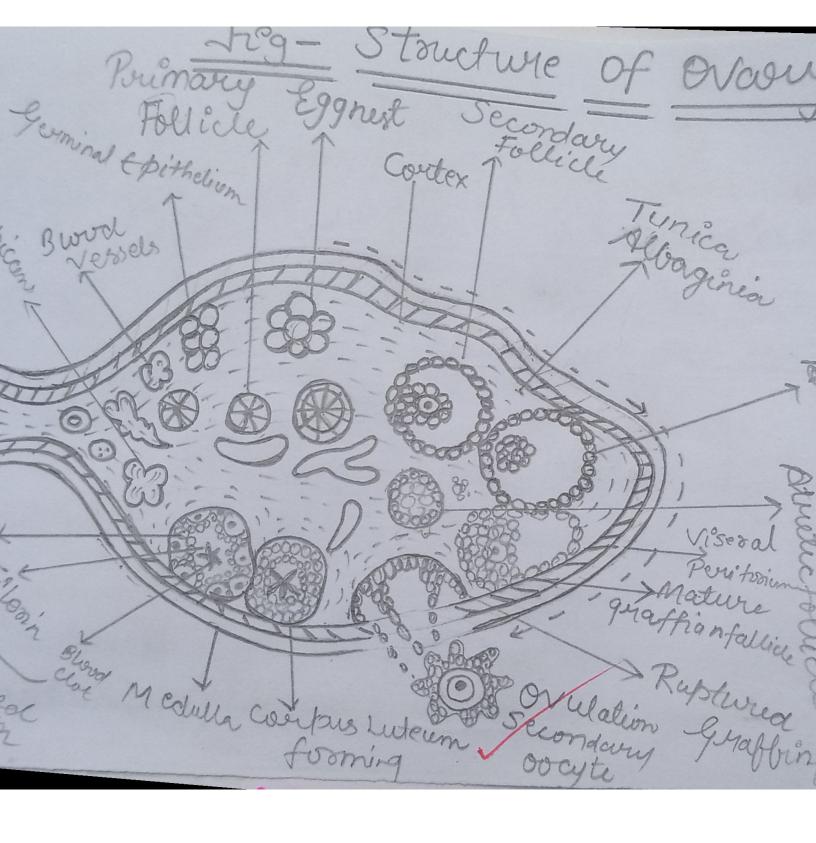
o And het helps to neutralise the acedic medeium of Vagena. o Making speums more ractive to swim. o Prustatic fluid accounts for nearly 20-304. of semen volume il Seminal Vesicles: (Paired, Situated behind blades · They secrete mucus and watery alkalithat Contains Fructose Cacts as an energy source for the sperms) o Prostaglandis (Stimulate reterine Contractions for sperm movement) a clotting protein forms a temporary clot rafter ejaculation) o calcium and certain other enzymes are also a part of seminal plasma NOTE Forctione broduced by seminal vericles is not present elsewhere in the body. Therefore, during forensic test for rape, its fresence in females's genital tract Confirms sexual intercourse



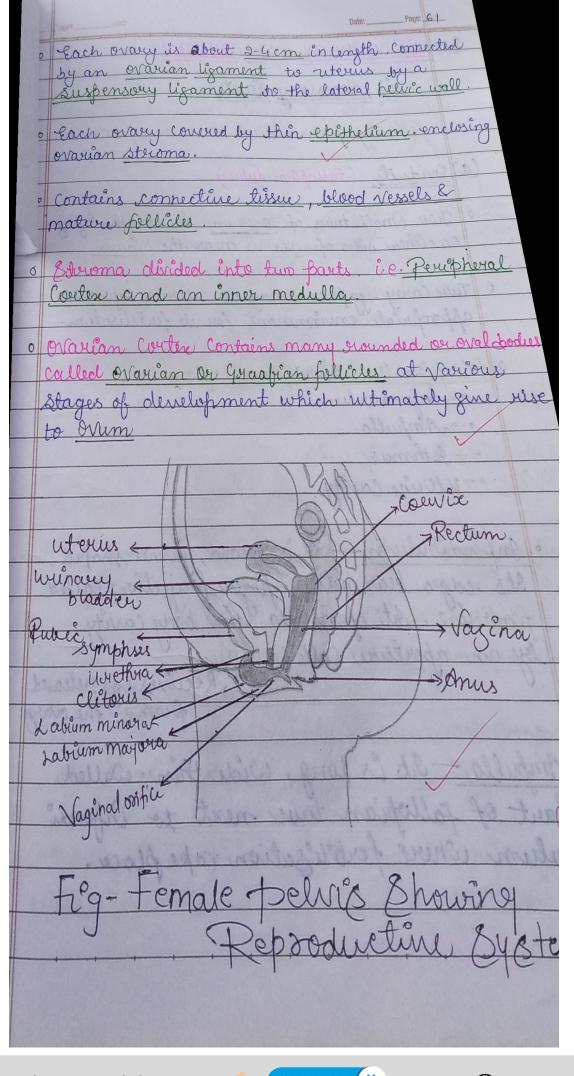
	-	Date: Page: 9
-	000	Bullourethral or Cowper's gland
1		e de porto quarra
		These secrete mucus and an alkaline fluid into the wrethra.
-		into the weethera.
-		13 19 Course of water of the state of the second of the se
-	0	They are attached to the wether below forestate
		gland
1		
1	0	Mucus helps in Inducation of frenis.
-		
	0	Neutralises wienary acids if, Bresent in weethra
		The state of the s
		Semen
	0	The servetions of circosous excland & much asse
200		The secretions of accessory sex stand & mucus are added to sperm to form seminal fluid or semen
		$(Y_1 \supset Y_2 \vee Y_3 \vee Y_4 \vee Y_4$
	•	Buovide medium fontransmission of sperm.
	0	Puovide medium fortransmission of sperm.
	0	Noweish and activate sperme to per them
4		Viable & motile.
_		The formation of the second of the second of
_		Note one Component of semen is Zino?
		Tutose viole in respondention & source is unclear
-		But its concentration below costain level
		has been associated with infentility.
	-	Solom 1 Contract
	3.	External Grenitalia:
		Page of the orders of sub-
	0	Penis is the external copulations organ in males.
		· · · · · · · · · · · · · · · · · · ·
	and the second second	

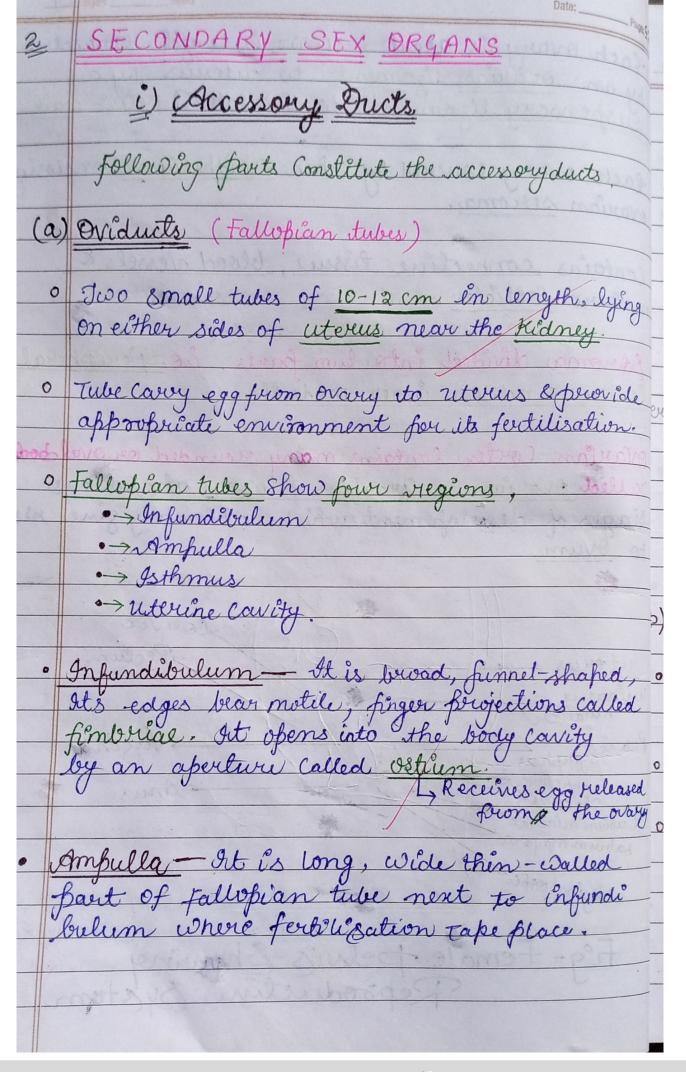
Date: Near the lip of penes, the spongy lissue (Corpus spongiosum) is enlarged to for a soft & nighty sensitive glans Penis. convered with the forespin or Brepuce o It has erectile tissues & Vascular spaces. o The Vascular spaces tend to fill up with blood. when the male is sexually excited causing Penis to erect. MALE REPRODUCTIVE PRIMARY SEX ORYANS Ovaries are the primary sex organ of o Pravies produce Gemale gametes (ovum) & Sterold hormones Covarian hormones Ovaries are almond - Shaped lying in the lower fart of abdomen held to the broad ligament by double folds of Beritoneum







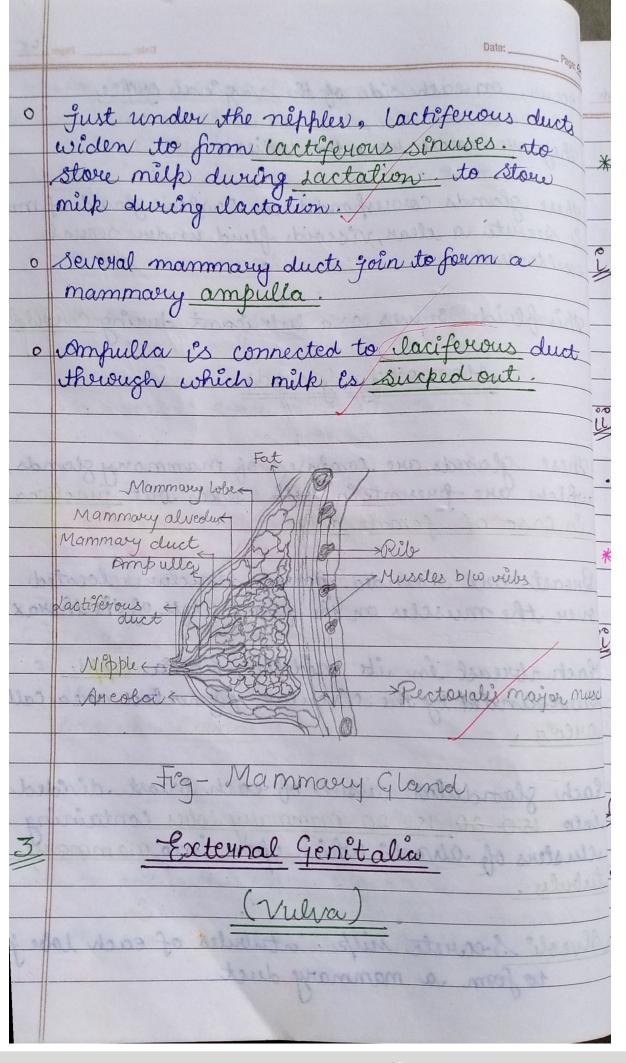




62/		Date: Placer
1		Date: Page: 63
		Lethmus- It is a short navious faut that
-		The self-like beginning to take any to the like any to the linduced and the like any to the like any to the like any to the li
_	٠	uterine part - pass through the uterine wall and communicates with the uterine cavity.
		the uterine cavity
		Ovaries rutenine cavity
-		Firmbriae Isthmus Sampulla Fallo
		Infundibulum tube
	iteu	Perimetorum ( Follicles )
	0000	Endometrium Coupus luteum
9		moral Courts of the Courts of the court of t
ă.		to the manierab of the Wagina must went
3		to and growing of his to sent and
	(.)	Fig- Sectional New of female Reproductive
	(b)	uterus (womb) 8ystem
	0	It is about 7.5 cm long, 5 cm wede like an inverted Bear in shape.
		en shope.
1	0	It lies between the winary bladder and victum.
d		A CALL THE C
	0	Uterus has a thick, highly Vascular wall composed of three layers of lissue.
		Alaconal Tennals
		-> orter ferimetrium : A thin covering of reterus
		wall.

-> Middle myometrium !-A layer of smooth muscle fibres, which which contracts strongly during delinery of -> Inner endometrium !-That Contains glands and many blood vessels, O It rendergoes cyclic changes during the mensternal cycle. \* Uterus receives the orum from the Fallopian tube, forms placenta for the development of foeting and also expels the young one at the time of buth. Lervise (2) · It is the narrow entrance of the reterus Ento the Vagina · It is blocked by a Blug of mucus ii) Accessory Glands A fair of vestibular or Bartholin & gland

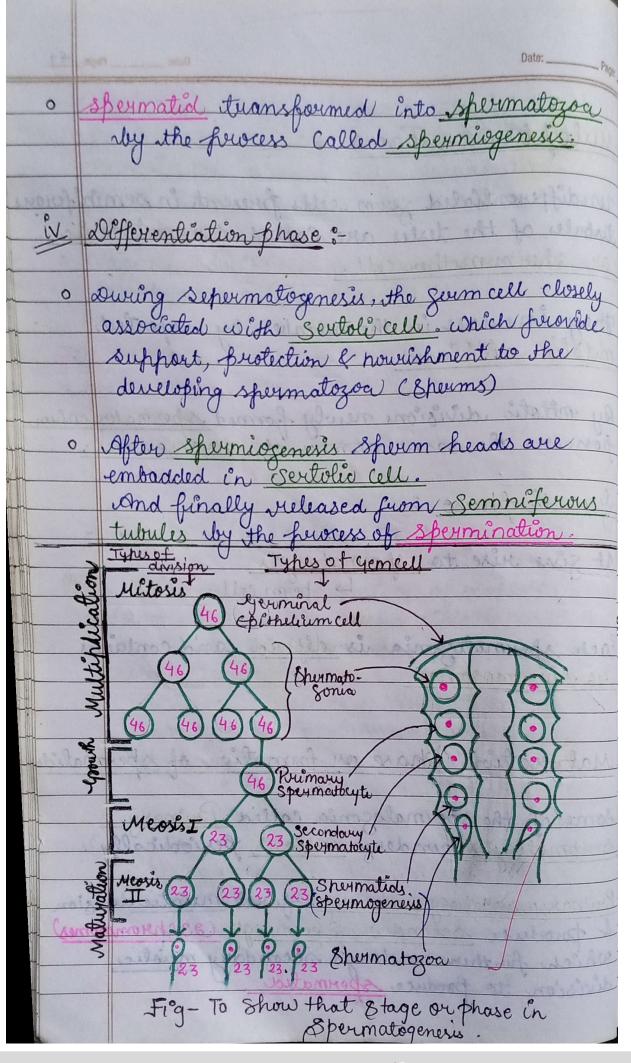
	. –
	Date: Page: 68
	occur, on each side of the vaginal outile
60	They are small rounded bodies.
	These glands coverespond to the cowper's gland of male & secrete a clear, N'scoid fluid under sexual excitement.
0	This fluid serves as a lubricant during conbulation
	Mammary Glands
3	These glands are composed of mammary glands, which are present in both sexes but functional in case of female only.
0	Breasts are rounded, paired structures located over the muscles on the front wall of the thorax.
0	Each rbreast en its middle, has a nipple Surviounded by the corcular, pignented area called arcola.
0 1 1	Each glandular tissue of each breast divided into 150-20 15-20 mammary lobes containing clusters of alreali which open into mammary tubules.
	Alveoli Secrete rilk. tubules of each lobe join to form a mammary duct.



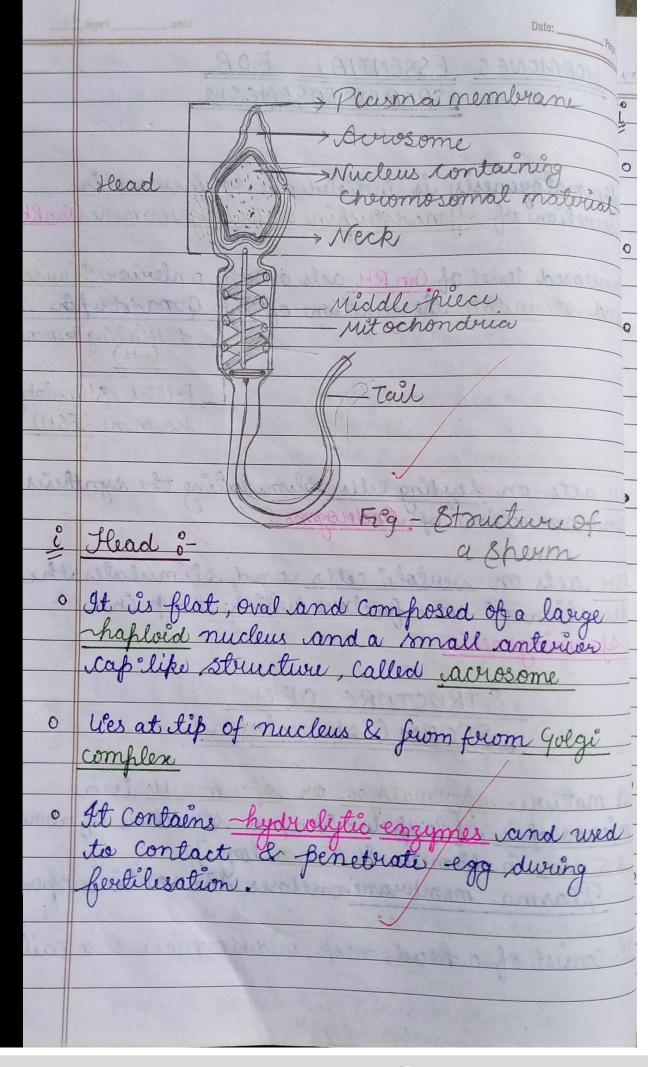
160		
		Date: Page: 67
-		de la
-	*	The external genetalia of females are Collectively called vulva.
-		Called vilva.
_		At consists of the following parts.
_	0	Mon P. M
_	1	Mons Pubis :-
_		anterway most structure of
		Nulva and is covered with spin and Pubic
_		while course the angenal opening eithers
	0/0	uletoldenes en ultren de
_	<u>ll</u>	Two longitudinal folds of skin called labia
-		majora ferom the boundary of the vulva. It also covers two additional folds of spin
15	•	At also Coners two additional folds of spin
		called labía minora
	*	Both Salia majaya and Jakin minus Plantet
		Both labia majora and laboa minora frotect the vaginal and wethral opening beneath.
8		to the sounds they begin he had attended in
	ill	Clitoris :-
3		It is small exectile organ, which wes at the upper junction of labera minora above the weetheral opening is the homologue of glans
iscl		upper function of labea minora above the
00		beneficial opening is the homologue of slans
0	_	penis of males.
J. Y	iss	urethra and vagina 6-
	77	with the state of
A	0	These open by separate apertures, the weethers
	_	These ofen by separate apertures, the weether
3	_	The state of the s
	-	* Buscess of spermatogenesis start at Privaly

o Nagina is adapted for veceiving male's Bouth canal during partwition Vagence ourfice normally covered by a membrane called hymen Hymen is a then mucous membrane, which covers the vaginal opening either Bevilly or completely It is often town during the first coltus (Intercorrese) GAMETOGENESIS Process of the formation of haploid gameter from the rinedifferentiated difficial sum cells in the sonads, for sexual reproduction is called Gametosenesis Gametogenesis en human being are two Organisis (In Female) Spermatogenesis Formation of spermatozoa (sperm) in the stestes, which originate from the Primordial yern cells (Parcs \* Process of spermatogenesis start at Pubert

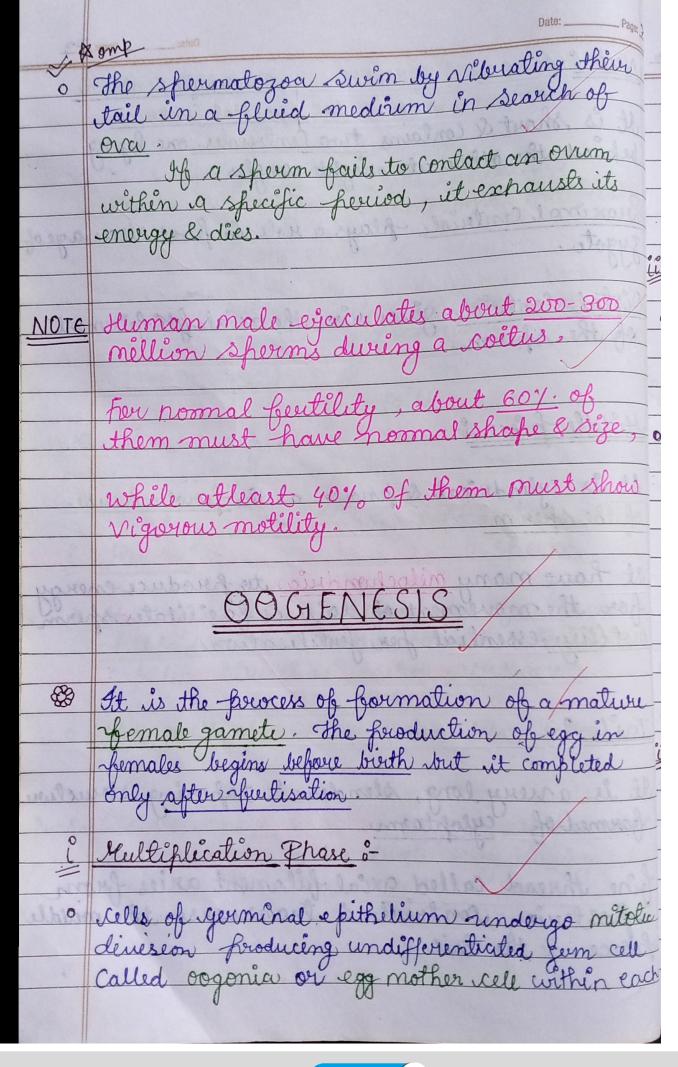
Page: 68		
	56	Date: Page: 6 9
1	•	LOGISTAMOSA, ASSA CAMBON CAMBON CASA ASSA ASSA ASSA ASSA ASSA ASSA ASS
-	i	Multiplication Phase :-
	0	Undifferentialed seum cells Bresent in seminiferous
		dubules of the testes are Called spermatogonica
		undifferentialed serm cells Bresent in seminiferous tubules of the testes are Called spermatozonia or sperm mother cell.
		Control of the state of the sta
) -		They increase in the number by repeated mitolic divisions.
-		XMMIN Y TOO MATERIAL YALLA IN
oto	0	By métatic divisions newly formed spermatogoneum
Mail.		By métotic divisions newly formed spermatogonlym possesses the same number of chromosomes.
DA	_	
no	1	youwth phase :-
. The	0	At Sive rise to spermatocytes
metes		→ sperm cell.
ls		Listanicis to f
2.11.21	. 0	Each spermatogonia is diploid and contains 46 chromosomes.
b.		46 varoamosomes.
1	B	(96) (46) (46) (46)
7 18 16	الله	Maturation Phase or formation of spermatides
585		A Justing and S. C. Company of the C
	0	Some of the spermatogonia called Primary serpmatocytes undergo, neiosis, periodically.
31/11	-	serpmatocytes undergo, musis, periodically.
	0	Primary somotiociti sinderion first movedia de la
2/16	1	Primary sepatocyte undergo first meiotic division & produce secondary Spermocyte (23 chromosomes)
1		which further undergo secondary meiotic
1	-	which further undergo secondary meiotic division to Broduce spermatia
1		Ang- To Show that Blage on Place in



2,4	Date: Page: 7/
	HORMONES ESSENTIAL FOR
	SPERMATOGENESIS
0	of Danas Across of the Control of th
1	Secretion of line interest due to incuese in
	Secretion of Jonadotropin Releasing Hormone (GinRH)
0	Increased level of Con RH acts on the amlaying Dituitary
"	and stimulate the secretion of two Gonadotropins  Luteinising Hormone
6	Luteinising Hormone
	Homone (FSH)
	Homone (FSH)
2	IH acts on Leyding cells slimulating the synthesis
	and secretion of androgens.
	- (NOT) 13
7	FSH acts on sertoli cells and stimulates the secretion of some factors which help in
	spermiogenesis.
*	copelito Structure called acresons
	STRUCTURE OF A
	SPERM (spermatozoa)
	A mature spermatozoa or sperm cell is a
	mecroscopia. Itadpole Shaped structure of about
	2-5 Ilm in diameter & GOVM long ?
	Plarma membrane encloses the entire sperm
	It consist of a head, neck, middle fiece & a tail.

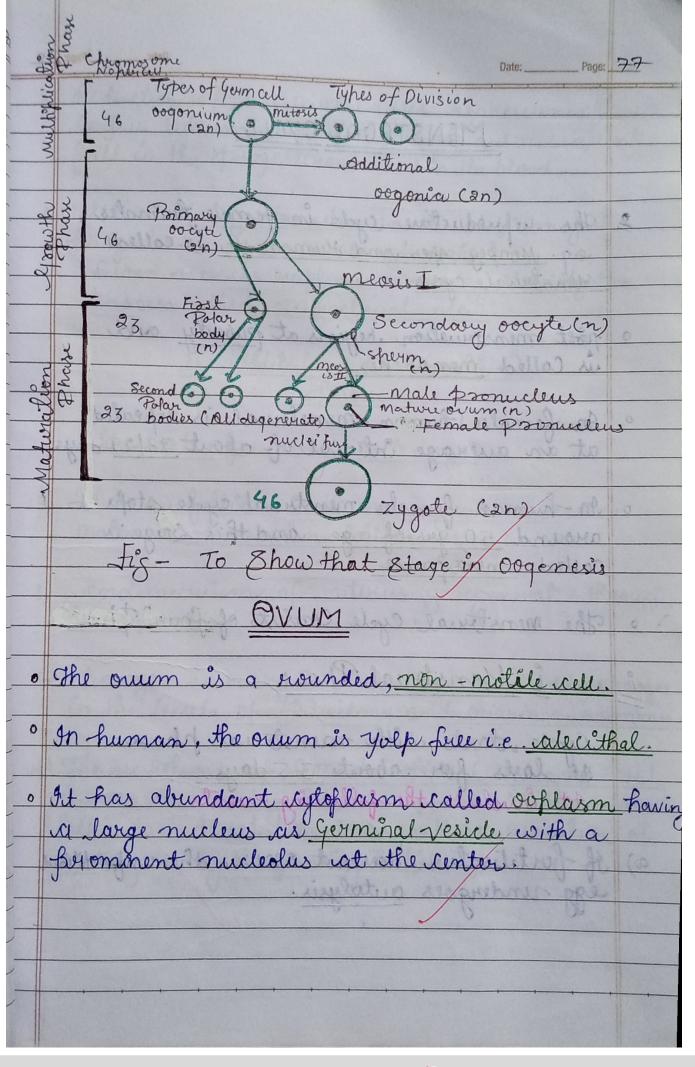


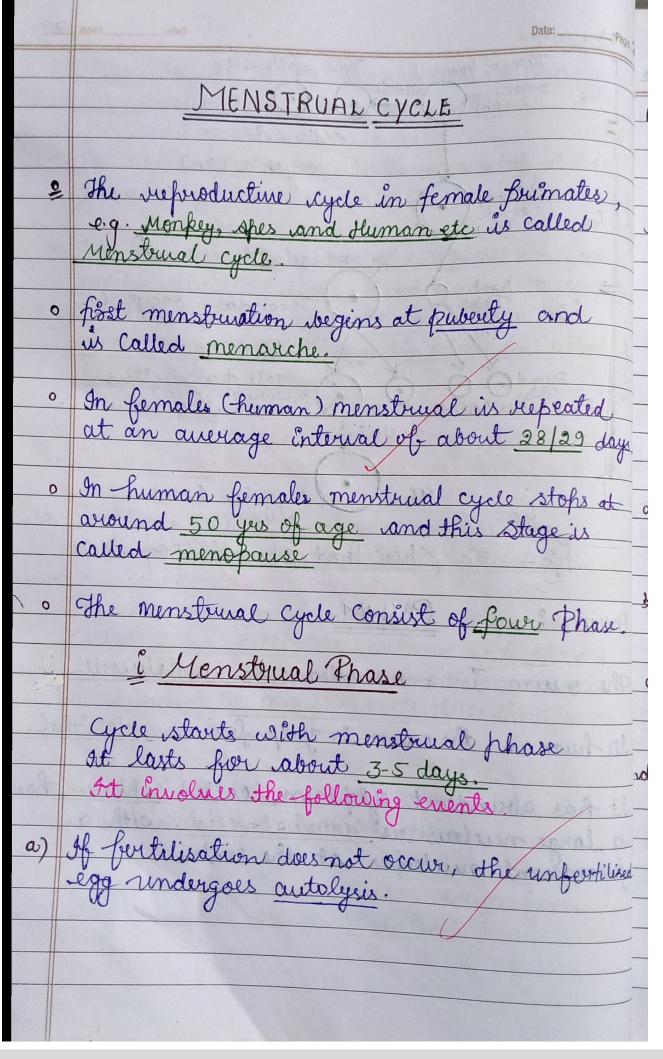
	Date: Page:
11	Neck:  Resort & Contains two Centrioles, one lying behind the other at wight rangles.
/	alstal Centriol
0	It is shout & contains two centrioles, one lying
	behend the other at wight rangles.
0	Proximal Control Pl
	Peroximal Centriole plays a role in first cleanage of
Q	Distal Centriole Sines rise the axial fit filament
	Obstal Centruole Seves ruse the axial file filament of the sperm.
·	
مال	Middle friece ?-
9	It is cylindrical & known as the fower house of the sperm.
	of the sperm.
0	44 have many metaches due to Refer
	her the movement of toil & bacilitate sheep
	for the movement of tail & facilitates sperm notality essential per fertilisation
0	To a de mentament de marche et a 12 68
LV	Tail 3-
0	It is a very long, slender & takering structure
	It is a very long, slender & tapering structure formed of cyloptarm
	A LONG TO THE REAL PROPERTY OF THE PARTY OF
0	fine thread called axial filament aries from fosterior contrivole & transverse the middle frece. & the tail.
	hiere I the fail.
_	y new and and the same of the



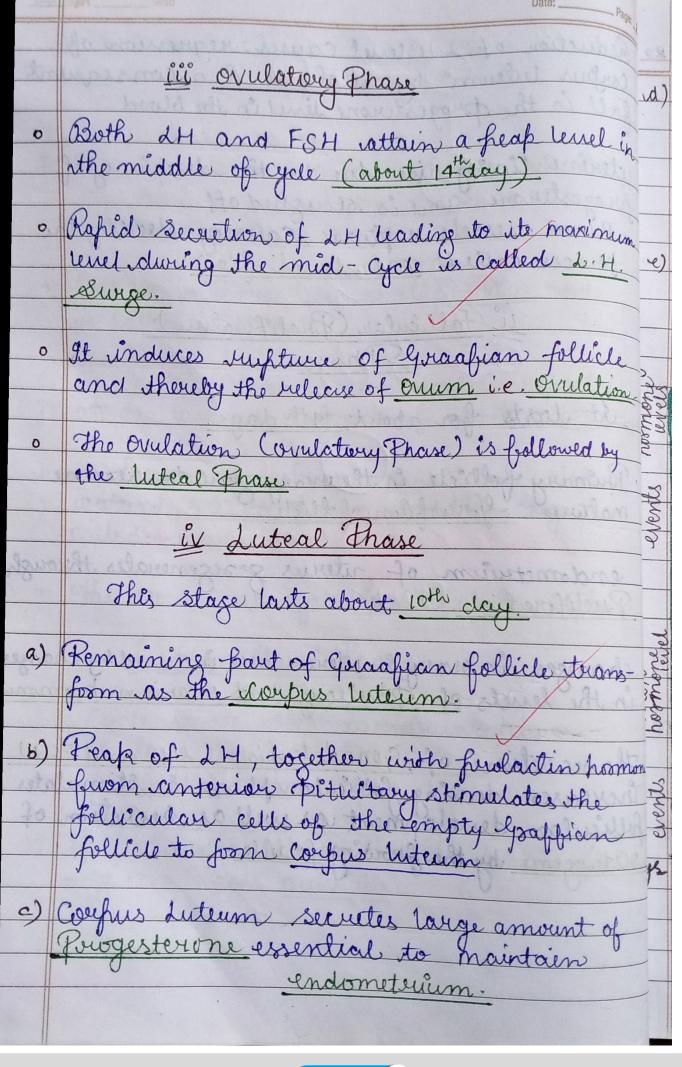
E M	
=	Date: Page: 38
1-	firetal ovary.
-	
-	misting discion & enter Prophase I of
_	stage british and get temporarily ravusted at this
_	o These cells start deirision & enter Prophase-I of meiotic division and get temporarily revusted at this stage. known as primary oocytes
1	i fromth phase o-
	windling out and the local and a local and a local
_	o trimary oocyte then gets surrounded by a single
_	O Primary ocyte then sets surrounded by a single layer of guanulosa cells and its called primary follicle.
_	Jounte.
	The primary Pollicle cete survey anded live make lawy
	of granulisa cells and a new there to form
	The friendry follicle gets surrounded by more layers of granulisa cells and a new thecar to form secondary follicles.
_	NOTE-About & Million of these follicles exist in female
	rate during the phase from birth to publicles degene-
	The principal to publicy
	At publicly only 60,000-80,000 Bringy follicles
	At fuberty only 60,000-80,000 Brimary follicles
	The state of the s
il	Maturation Phas:
	a or it washing out anniety of the original to
0	In this phase, the secondary follicles soon transforms us into tertiary follicles.
	coms un into Terriary folicles.
0	There are characterised by a fluid courty Called
	There are characterised by a fluid county Called
	- Carro averro

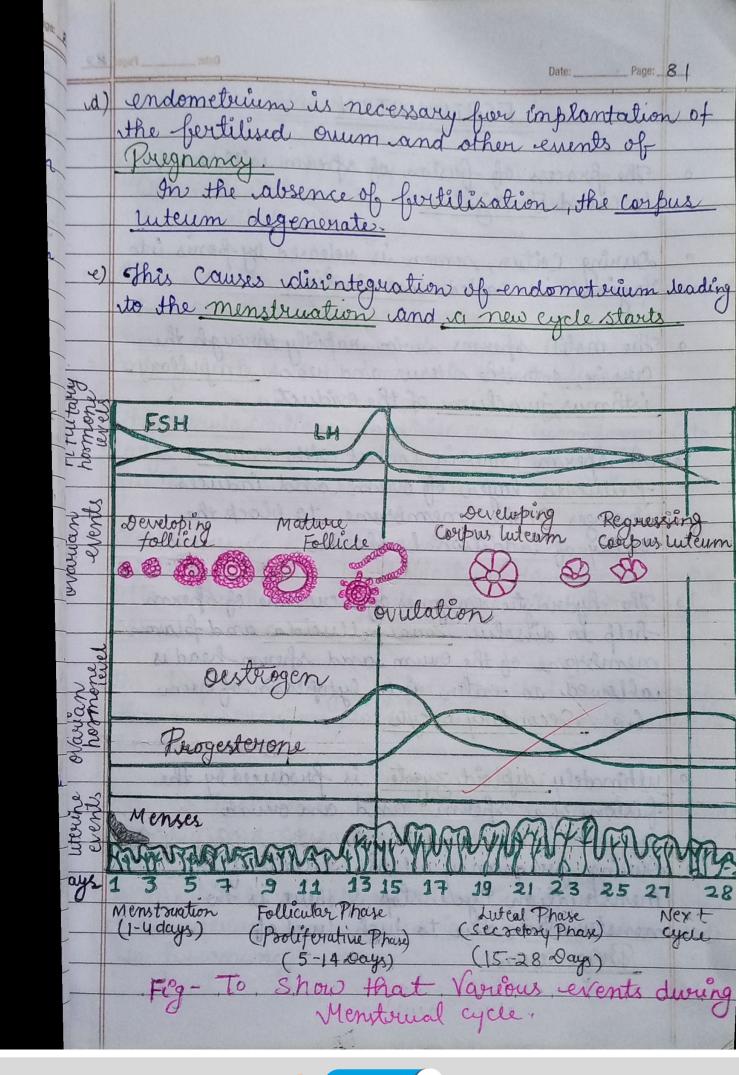
o Theca layer is organised into an inner theca and an orter theca externa. o trimary oocyte within tertiary nuclei follich sewws in size Fully serown primary oocyte completes its first meiotic division divi feroducing two doughter muclei and larger haplorid cell called Secondary occyte and tiny one is Called first polar body \* Secondary occyte victains bulk of ninterent vich rytoplash of sprimary oocyte o Tertiary follicle further changes into a mature follicle an spranfian follicle. The secondary oocyte forms a new memboon called zona fellucida wound it & starts its second meiolic division but remains 0 suspended in metaphase -II till the sperms renteus nit 91 Grafian follile, ruptures to release the secondary vocyte from the ovary. gu The release of the secondary occyte from the ovary is called Ovulation



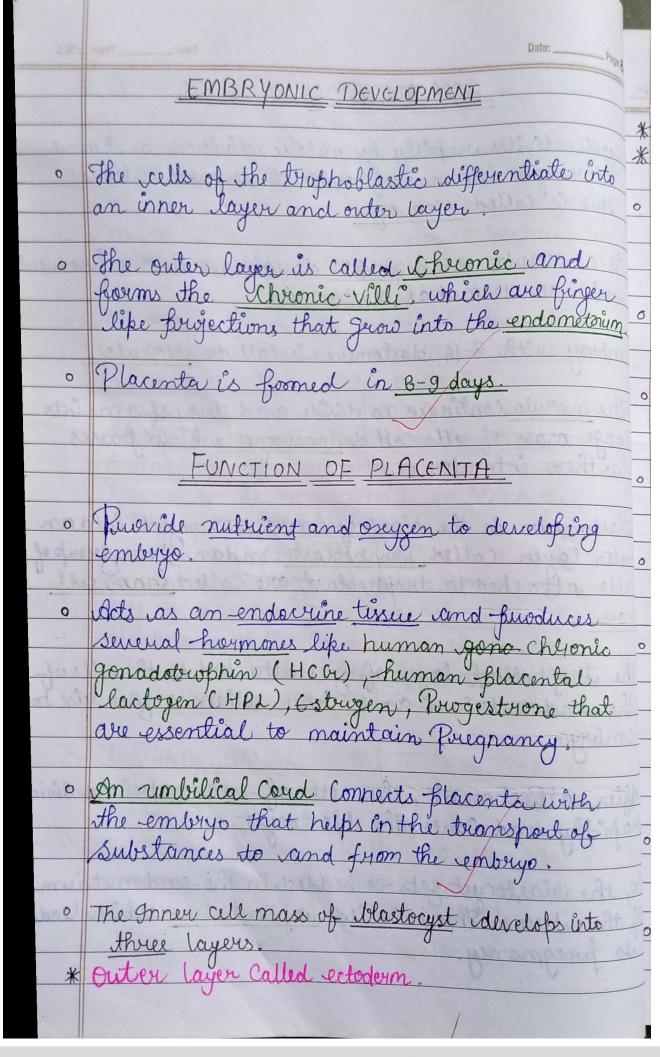


1 12	Dates Page	Date:	Pone 70
b)	Reduction of 2. H lavel Co		Page: 79
	Corpus Luteum by autolisis &	essur	of
	Reduction of L.H level Causes viegos Corpus Luteum by autolysis & a v fall in the progesterione level in the b	lood.	Juerry
	itorine 1° 0 1°	k 18.816	3/10
	Brogestering dies idue to the del	iciency	of
J	sterine lining dies due to the dets Brogesterone and is sloughed off. Bwood nessels sufture, causing & process called mensternal flow.	loaden	+6
	process called menstowal folow.	Carro	111
	00 -	Jagani	
	11 Follicular Proliferative	)	
	il Follicular (Proléferatine) Phase	1/2/11	40 0
	It lasts for about 14th days.	nt 100	70
11 25	A Thinks I have been a first and a first a	luvo sa	to 10
a) Po	umany Gollicle in the ovary serons to	a beco	me
mo	eture Graafian follicle.		
	CARTILL TO THE		
) es	rdometrieum of riterus gregen	enates.	through
- FM	out excition.	ANY?	
ch a	2000		0 1
In H	nges in ovary & riterus are inde he levels of pituitary and ovar	iced by	1 Changes
Un ar	i revers of fructory and ovar	ian	romones
The	or votion of Comodatashing		
Phaul	ecretion of Gonadotropins (1)	ane	(BH)
alle.	las dansliberant as well as	Dun	rulates
mu	the During Callet	ecyeu	on of
HSING (	ases diving follicular phase & lar development as well as & cens by the frowing follicle	aloilye	
Jo To	determine the secretary amounts	VINA	6) (0
300	entrant of housement one	14000	
	, , or is, it was har.		
			1
			H. Salah









	Date: Page: 8 S
*	Inner layer Called rendodern
*	Inner layer Called rendodern Middle layer Called Mesodern.
0	Inney call mass combine
	rells that have the butenon to see the little
	Inner cell mass contains certain cells called stem cells that have the fotency to give rise to all the lissue and organs.
	After the one month of fregnancy, the embryo's heart is formed.
	By the end of second month of Bregnancy, the foetus
	By the end of second month of pregnancy, the foetus direlops limbs and digits.
	The state of the s
	Appearance of hair on the head and fortus movement is observed during fifth months.
0	After six months, the body is convered with fine hairs, reyelids separate and regelashes are also formed.
	régéres séparait and régéressés are valso formed.
0	By the end of nine months of bregnancy the Rostus
	By the end of nine months of frequency the foetus is Completely developed & the freetres is ready for its delinery.
_	delinery.
	PARTURITION
	Hurring impalls days of textation in called
0	Colestinus Confuse & Santitrolus
	The annage dwalion of human Pricynancy is about 9 months which is called the Gestation period
0	The act of expelling the full turn fronthe

is called Pastwition. o Partwrition signals originate from the fully developed foetus and the placenta which include mild uterine contractions called foetal ejection reflex. o This help in the secretion of oxytocin form the maternal Pitruitary Oxytocin induces stronger uterine muscles Contraction which lead to expulsion of the baby from the reterrus through the printh Canal. LACTATION nammary slands of fremale undergo differentiation and start broducing milk at the end of bregnancy. This is called dactation · This helps the mother in feeding the newborno the milk that comes out of mammary sland dwing intalls days of lactation is called Colostrum (rubuent & antibody) o Thus, breast freeding is recommended by doctors four bringing up a healthy baby.