HUMAN REPRODUCTIVE SYSTEM · Anatomy of male and female reproductive system · function of male and female reproductive system Sex harmones · Physiology of menstruation · fertilization · Spermotogenesis · Pregnancy and parturition It is also known as sexual reproductive system. Bt involves internal fertilization by sexual intercourse. The male inserts their penis into females vagina and igaculate semen inside the vagina. The curun contain sperm, fan strong sperm are passess through the comin inside the werrs and then into the follopian tubes for our fertilization. Parts of female Reproduction System The female reproduction system involves the following organs like ovary (ovaries), fallopian tubes, uterus and 1) Overy to The overies are small oval shaped pair of organs. They are situated in lower part of abdominal cavity which produce ova. The ova start maturing during puberty stage of finite, every 28 days. an over 31 released from the overy and taken up by a thin fallopian tube through its funny shapped opining. The own is passed down the

duct to the uterus and finally passess through the vagena. were upo boxility of mit mito-illustration and minority of the miles and minority of the mi 2) fallopian tube > The fallopian tubes are also known as oxiduds the ovaries to the otherup. Each fallopin tubes has a fund shaped opening near the ovary. It is lined by civia that nelps the lovin to fall down into the fallopian tube and into the views through its movement. embryonic development is known as gestation princt. 3) Utenson The of uterus rocally or known as womb, is a hellow, pear-shaped elastic muscular funel organ ets upper portion Is wider where fallopian tubes enter whereas the lower portion of the tube is known as urvin which is consists of muscles, the vierus open into vagina through the corvin. 4) Vagina > The vagina is a tube that opens to the outside of the body through an opening called valva. In this organ the penis is inserted during intercourse. for the dicharge of spirms through the passage, the fully developed body is also born.

It is located b/w urinary bladder and the rectum. A) - Sertilization > This is a method or process through which sperm enter into the own when semen is discharged in vagina during Sexual intercource. Only one set sperm enter the over because most of the sperm die which caring to the fallopian tubes. A sperm can remain alive in the fallopian tube for about 12 hours and during this time sperm enter's into the ovum:

B) Implantation:

After fertilization, the fertilized egg moves down the fallopian tube and continvosly undergoes cell division.

Fertilized eggs are called zygote During cell division.

Zygoti forms a holbur ball of cells which is known as embryo. The embryo gets embeded slowly in the wall of the uterys by means of thick muscle gland and a large number of blood capillaries. The total period a from the utime of fertilization to embryonic development is known as gestation peniod.

The is around 280 days (9 month) for humans.

Fallopian tube Vagina Endometrium

FEMALE REPRODUCTIVE SYSTEM

Page: · Parts of Male Reproduction system The male reproductive system includes the following organs like tester, suminal vesicles, peris and prostage gland. fig. L. Miller Miller 1995 1) Testis > It is the most imp. part of male reproductive in number and an oval shaped. They are situated in a protative bag called sevotum which is sac like structure lying outside the abdominal cavity. The secretum can elargate and contract based upon, the body temp and external femperature. Sperm formation occurs at a temp lower than normal body temperature the seminul veside is an elongated sac at the base of the uninary bladder which stone sperms. 2) Prostate gland > The sperms duct from both sides join hear the base of the urinary bladder, opening ento a single tube called wrethra. This junction occur inside the prostate gland which secrete the seminal fluid. The wethra cover to the outside of the body through an organ called penis. It caries both usine and seminal fluid, 3) Penis - The penis is a muscular and tubular organ made up of loose tissue with spare in between which Is alled irrectile time. During stimulation, the exectile and tissue reist filled up with blood, making the penis exect and the firm which helps penis to enter inside the vaginavi of bothe por female and discharge the semen.

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	· MALE REPRODUCTIVE SYSTEM!	
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y) Sperm + The semen contain sperm which is the male gamete. It has a head and a long tail. The tail helps sperms to swim towards the oum for fertilization. tellice It il the most inp part of wale reproductive in number and an aval shaped true as sit ated the structure lying oxigits the abdominal carety, the secret an danget and contract board upmothe body the and struct temperature. Sport formation occurs at a temp than normal body temperature the senious reside is an elongated sac at the base of the universe branches volut store sperms. note that a state of the poth side the term the base of the urinary bladder, opening ento a single type called wething this judion occur finside the product gland which search the seminal fluid the withing cover to the outside of the body through an engan called perils It caries both voins and chained their The peris is a musular and tubular eighn made I up of look tissue with space in between which Spermatagenesis and Cogenesis are together know as Gametogenisis in which and deplois gamite cell

and form an one of the centricles of The cells elongates to become the tail of the Spem !! Primary germ cell with 2x Primary spurmatocyte CONSTRUCTION OF to overlawgod soubdiffirst amaturation division (meiosus Secondary spermatocyte (Haplaid) most west and out out of interpretation from secondary Spermatocytes produced earlier rapidly Enter moioris IT and dividus to porduce traff naplaid Mitamoral · Organis to It is the process by which the finale biton 1992 abogameter out ovaries formed into the ovaries therefemales information alled an over. s go stages but objectivities around discussed when Thistead mid pice when the regional fire something

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tepeatedly to form the organia a

egg which are furthers multiply by the mitosis division

and form the primary occuptes. There saytes pass through

the growth phase

stage & + Growth phase + The growth phase of the original is

much larger than spermatogenesis. During
this stage the size of the primary cause encurse
enormourly. During the growth phase, lot of change
occurs in the of the primary vacyte

stage 3 - Maturation phase - During the first maturation division

or Mejosis-To the homologue chromosome

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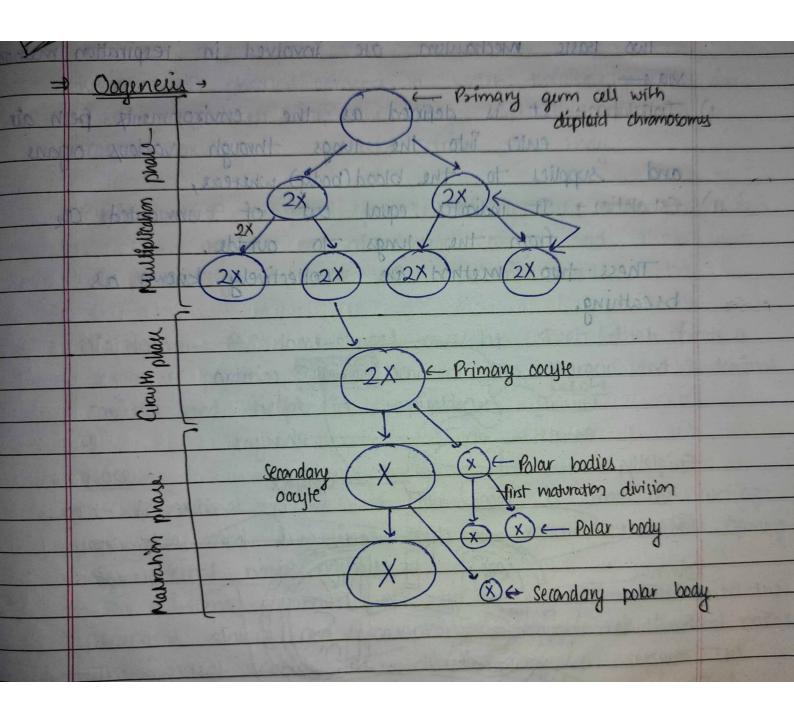
bluatent chromosome move towards the approint pole due to contraction of chromosomes. Fibres.

Second maturation phase > Secondary occupied than enters into mitorial and maturation stage or mejosis II, where whaploid materalary occupie forms.

which relpt in replace of gration fluids. This is an author phase of other authorism the endomedium become mone sections of progesterals.

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· Menstual cycle is the regular natural change that occurs in the female reproduction system and makes pregnancy possible the cycle is required for the production of ovacytes and for the preparation of the views for pregnancy. It is a cyclic phase of the blood from the utery of final at monthly interval of It occurs on average of 28 day and stay 4-50 days. It starts at the age of puberty and stop at the age of around 45-50 years of age) Phase of mensional cycle. - 22010 mitorutoria - 5 0-10 mobile noits to has four phases like mensional phase, proliferrac uphase position and secretive phase During menetral phase, the endometrium stude blood and mucis sopassesso dout through waginat fourt duration of ent of 3-siorgays out stranger ovor emozomond tuelouid 11) During prolifuration phases the prolifuration of endominim takes place. In this phase the estrogen level are increased othis mentioned helpstrained pralification to thema this phase as uportain miabotonknowno as est esports phase. The duration of Tricion II who alpha day about the object of the wife with the single with the size of the 111) Before what days of mental of monthation there is a sydden increase in fsv and w harmone levels which nelps in reptine of gratifian foliale. This liberate an over which is known as ovulation phase secretive under the influence of progesterane. tience this phase is also known as progestione phase or secretive phase In this stage both

