

SR. SEC. SCHOOL An English Medium Co.Ed. School | Science & Commerce



W: www.vsajaipur.com | E: vsajaipur@gmail.com M.: +91 9460356652, 8058999828 Add.: 84, Krishna Vihar, Behind Narayan Niwas, Gopalpura Bypass, Jaipur - 302015





Subject – Biology

Class- 12

Topic – Reproductive system of human

Very Short Answer Type Questions 1. Write functions of corpus luteum. 3. Write the name and function of hormone secreted by leydig cells. 4. Write names of primary reproductive organs of human male and female. 5. What do we call the mucous layer found on the internal caviteal surface of uterus? Short Answer Type Questions 6. Short Answer Type Questions
What changes are seen in human male and female at onset of puberty? What is gene purakata? What do you understand by sertoli cells? Write their functions. Draw a well labelled diagram of breast glands of females and explain how are these helpful in reproductive process Type Questions What changes are seen in human male and female at onset of puberty? The productive process of the process of the proc
1 Draw a labelled diagram of reproductive organs of human male and describe in detail. 2 Explain the structure of ovary. 3. Describe the different glands of human male and female reproductive organs which are helpful in reproductive process. 4. Write short notes on: (NO Ovary Penis (Epididymis (V) Corpus luteum)

Reproductive System Define Reproductive system. RL The reproductive system or genital system is a system of sox organs within an organism which work together for the purpose of sexual reproduction Name the pournary sex organs of male and Jeshale. Nale: - Testes Jeshale. Fernale! - Ovaries. Name the main sex organs of male and Q3. Mole? - Scrotal soc, epidimysis, was Couper's gland.

Vagina, vulva, breast and etc. * Male (Reproductive System Which cells in testis act as endocune gland? We'de name of hormones secreted by these. endochune gland. Androgen hommones are secreted by these cells.

6. Write the name and junction of normane Hormone: - Androgen hormone Function: - It controls speumatogenesis perovides male secondary sexual characters. a. In wenter, the scrotal sacs construct and become small. Explain Spermatogenesis neids a temperature of 34 to 35°C. I During winters, the outside temperature is low. Hence, the screetal sacs shown to come clowie to the body to get more heat. a. What do you understand by sertali cells? Write their functions Sextali cells are also known as supporting celle or Nurse cells. Their free surface mutilated. In this past the spoumatide (per mature sperms) remains attached with scripti cells. Functions: It provides support and naurshing disintegrate the unnecessary cytoplasm of spermatids. These also southe the protein hormore while which negulated the junction of Follicle Stimulating Holomone (FSH) Draw a well labelled diagram of teransurerse section of testis.

Interstition (col burem solls of Fibrious shooth Spermatoin Cella. of sectoli Basement memberans Draw a labeled diagram of tuman Male Reproductive System and Explain. seminel reside winary - Brestate gland Universe treat Vas deferens Penis. eproductive System Epididymis

Male Reproductive System It has two main components - Prumary expreductive organs and accessory or or In males, a pair of tester are primary expecoductive organs or gonads. 1. Testes: In an adult man, there are a pan of pink and oval shaped testes which are situated outside the abdominal cavity and in the middle of both legs. The wall of scriptal sac is perible, thin and having with a thick subcutaneous larger mad up of unstriped muscle fibres inside it which is called Dantos muscle. A red shaped leunch of striped or stricted muscle fibers join the subcutaneous muscle larger (Dartes muche) of each half of scrotal sac with abdominal subcutaneous muscle which is called bremoster muscles. A narrow Inquinal hand is connected with the cavity of each scrotal sac.
Inside the layer of germinal epithelin two kinds of cells are found-Supporting cells. Besides them, there rose many accessory reproductive organs mainly scriptal sac epidiodysis, vas deferens, penis, perostate

gland and Couper's gland jound in males. Scriptal Sacs In most of the mammals human testes are found in scorotal sais outside the abdomined caulty. The temperature of scrotal sacs is 200 to 2.5°C lesser than body temperature due to which the maturation of sporms becomes easy. Epididymis: 3. This is a then, about 6 m long, extremely roiled, flat and comma shaped tubule. This tubule is divided into three parte-Caput epididymis Cospus epididymis Cauda epididymis Vasa Deferens vasa deferens is about 45 cm long tubute. The vasa deferent begins from the posterior part of epididymis and more upward through inguinal canal entere the posterior part of winary bladder and at last form an Ejaculatory duct. Sperms are temporarily stored in Ampulla. Exaculatory ducts finally opens in

Unethora The winary duct after a emerging out of winary bladder and then combining with ejaculatory duct, joins winogenial duct or wethra. This is about 20 cm long canal which ends as urinogenital apertiche at penis top. 6. Accessory Reproductive Glands: Men have mainly three kinds of accessory secretions in winary tract. These all secretary substances along with epididymis and seminal residers sedictions and sperms Join Semon. Following are glands. Prostate Grands This gland is situated at the base of weinary bract. It secretes light white (whitish) alkaline liquid substance which constitutes about 25-30 percent part of semen. 11) Seminal Vesicles: These are a pair of bag like stemetures situated between the surface of wunary bladder and rectum This secretes a yellowish sticky substance. iii) Compose's Gland or Bulbourethan Gland: Just below the prestate gland, on both sides of winary tract there are one small aval glands called consper is agland. At the time of matterny, dense, stucky

alkaline and transporent liquid is secreted by these glands. 7. Penis: In human and wither manimals in the middle of scriptal saw and hanging from the abdominal savity, a long aylindrical. exectile and ruchly vascularised At the time of intercourse it gots folded behind the glands penis. Write functions of testosterare hormone. Testosterare is the permany ses male sex hormone and anabolio Lescoid In male humans, testosterare plays a keyrole in the development of male reproductive tissues such as testos and prostate, as well as promoting secondary sexual characteristils buch as intreased muscle and bone mass. and the growth of body hair. + EMALE (REPRODUCTIVE System. Q. Write junction of corpus lettern. It secretes two hormones: 1) Progesterone ii) Relaxin went do me call the mucous layer journe

on the internal caviteal surpce of reternes Endometrium. a Draw a labeled diagram of Jemale reproductive system and explain. - oriduct mundibutum - ovary Ceruix uteri Ovasy Moure vagina Female Reproductive System: In Jemales, a pair of evary are there in the form of poumary reproductive organ. 1. Ovary: In Jemales, there are two almost shaped ovaries situated in the abdomeriel cavity Each ovary is 1.5-3 cm long and 8 mm think These are attached with dorsal side wall of abdomined cavity behind the kidneys, in pelvic region by meserarium so mesentary. The production of Jemale egg (overn) and secretion of Jemale sex hormones Estrogen of Perojecterore occurs by overy. Ovaly is a dense and solid organ which is

composed of thick, dense outer part Cortex and comparatively love, internel part medulla. Besides these, a pair of oriduct, uterus. vagina, vilva, breast and suproductine glands are accessory organs. 2. Oriduct: · From each ovary, about 12 cm long, keap shaped and coiled muscular tilbe is closely connected which is called fallopian tube or oriduct or uterine The wall of it oridical is contractile and internally lined with ciliated epithelium The posterior oudoct opens in uterus. 3. Ilterus: This is pear shaped hollow organ which is situated in the middle of pelvic region A layer of mucosal epithelium is joined on the carriteal surface of reterus which a called Endometrium. Outside mucosa, a thick muscular layer formed of smooth muscles is jound which is called myometrium! It opens in vagina strough an external

4. Vagina: · Centix uteri out groves and jorms a muscular membrandus tube like structure called vagina . The wall cells of vagina store glycogen. . The vaginal origine (opening) remaine pastly closed by a thin memberane called Alyman. · Vagina, Besides copulatory organ, perovides passage to menstrual ylow and works as buith canal for the baloy at the time of buith. 5. Vulva: All the external generals of Jemales are collectively called vulva. These are situated exactly above the perinaeum in pelvic region Vulva uncludes following structures. Mons pubis or Mons veneris. Labia Majora iii) Labia rinora iv) Clitoris Vestibule vij Bartholin glands or Goreater vestibular gands. 6. Breast: Breast act as accessory organs of jumale reproductive system. These are Situated on pectoral muscles, on the front side of chest. These secrete milk. This milk provides nutrition to new born baloy. Mainly small ducte emerging out from each

with the help of mesovaruim. The mesorarium originates from the visceral peritonoum. The ovary has guminal epithelism inside the mesovarilim which is made up of cuboidal germ cells. The overy has storena made up of fibrous connective tissues. The periphoral part of the strong is condensed with is called cortex and the inner less dense part is called the medulla. The cortical part of the every has overion follicle which were as follows -Primary follicles: They are formed during embroymic stage and begin to grow at puberty It has an organium surrounded by larer of follicular cells. Secondary follicles: It has a peumary occyte succounded Leveliary follicles:

It has a pournary occyte succounded by 3 layers of the follicular cells Meture follicles or brasjian follicles: It is surrounded by a membrane granulosa which consist of two layers viz theca external of theca internal. It has flend filled cavity, the anteum There is a pair of ovaries which are

The meture follicle has a secondary oxyte which is attached to the membrane granulosa This stalk is called as germ hill or discus proliperous or cumulus ophorities. brughton follicle gradually migrates to the periphery and gets protoculed. The mature policies bursts at the surface to release the secondary vocyte outside. It is called ovulation. 5. Ateretic follicle: · Sometimes, the coexpean follicles jails to ovulate and degenerates gradually. The degenerating Graffiah follicle is called as athetic follicle and the process is called as atersia. 6. Corpus Luteum. It has yellow coloured buteal cells containing lutein yellow pigments. This structure performs indocune function secretes progesterione and inhibin horme There is a blood chot in the centre of couper luteum which is called corpers haemourhagic. 7 Corpus Albicans: If there is no portilization, the coupies Juleum begins to degenerate. The degenerating corpus luteum is called as corpus Albicians It is colourless and non-junctional

	0		
	Reproductive System		
	, ,		
Q.	Wente about the secondary sexual characteristics of male and Jemale and changes on onset of puberdy. Female:		
	characteristics of mele and femore		
	changes on onset of publing.		
	Coltrado al ahi assaulto of mammary		
-	Softness of skin, growth of mammary glands, lack of hair on body, thin and		
	succest voice etc are the secondary		
	sexual characters of human ternale.		
	Male:		
	Greath of hair on face I beard and		
	mustacles, dense have on body, heavy		
	voice, growth of scrotal sacs here the		
^-	the secondary sexua		
Changes	occurring in Male of	remale onset of publicy	
S.No.	Male	Female	
-		tornath is in a	
	benis scriptal sacs	brough in size of	
	penis, scuotal sacs,	uterus, vagina, oviduct	
	penis, scuotal sacs, prestate gland and		
2.	penis, scuotal sacs,	and vulva occurs.	
	penis, scuttal sacs, prestate gland and seminal vesicles occurs. Size of testes increases and spermatogenesis	and vulva occurs. Mammary glands grave	
	penis, scuttal sacs, prestate gland and seminal vesicles occurs. Size of testes increases and spermatogenesis	Mammary glands grow on bruard and monthly cycle starts with	
2.	penis, scuttal sacs, prestate gland and seminal vesicles occurs. Size of testes increases and spermatogenesis begins.	Mammary glands grave on becast and monthly cycle starts with	
	penis, scuttal sacs, prestate gland and seminal vesicles occurs. Size of testes increases and spermatogenesis	Mammary glands grave on becast and monthly cycle starts with mensternal flow Voice becomes thin.	
2.	penis, scutal sacs, prestate gland and seminal vesicles occurs. Size of testes increases and spermatogenesis begins. Voice becomes heavy	Mammary glands grave on bruard and monthly cycle starts with menstrual flow Voice becomes thin, acute and sweet.	
2.	penis, scutal sacs, prestate gland and seminal vesicles occurs. Size of testes increases and spermatogenesis begins. Voice becomes heavy	Mammary glands grave on bruard and monthly cycle starts with menstrual flow Voice becomes thin, acute and sweet.	
2.	penis, scuttal sacs, prestate gland and seminal vesicles occurs. Size of testes increases and spermatogenesis begins.	Mammary glands grave on becast and monthly cycle starts with mensternal flow Voice becomes thin.	

-		
/	and pelvic part.	The street of th
5	Fast growth of body	Fast growth in pelvic
		region, buttocks becomes
		unde and fat increases
-	1 0 1 1 0	in body.
6.	Testosterone, FSH, LH etc.	Increase in secretion of
7	Psychological attraction	Osychological attraction
	towards jernele	towards male