Zoology Inside 1marks,2marks, 3marks&5marks



20 plasmolomy is the division of multinucleate daughter individuals with the division of nuclei. er plasmotomy occurs in opalina and Blomyra Coraint amosha). when buds are formed on the outer surface of the parent body, it is known as exogenous budding. 23. Exogenous budding occurs in Hydra. 24. Buds are formed inside the cytoplasm and remain within the body of the parent is said to be endogenous budding 25 Endogenous budding occurs in Noctiluca 26. The parent body breaks into fragments and each tragment how the potential to develop into new individual. is called fragmentation. 27. Fragmentation is otherwise known as pedal laceration 28 pedal (aceration occurs in many genera of sea anermones. 29. In freshwater sponges and in some marine sponges, asescual reproduction occurs by internal buds called 30. The priorary host of Taeria solium. tape worm is man.

		www.Padasalai.Net www.TrbTnpsc.com
MANTER	52.	The male and famala campter.
MANN Lagas		organisms is sand to be Autogarny
	53.	Example for autogarny- Activosphaerium
MMMPREES		1 - marcial
	54	The male and female agmets
MANY SAGES		The male and female gametis are produced by different parents and they fuse to form a zygote is said to be exagarny.
- 488		exogamy.
MANY	58.	Example for Exogamy is Human.
MMM Cadas	56	garretes, but they theroselves behave as garretes and the living
WWW. PAGE		as garnetes and the fusion of such
WWW. Padds		hologarny.
WWW.Ppgg8	3.5	The sexual union of young individuals produced ironnediately after the alivisia of the adult parent cell by mitosis
MMM Epiges		Palacogarny.
MMM Spelgs		The fusion of small sized and morphologically different gameles is said to be merogamy.
WWW Padds	59.	Physiological identification and
WWW Fields		isogarny gamelis is cally

www.Padasalai.Net 60. Example for isogarny is monocystus, 61 Fusion of dissimilar gameles is anisogon 62 Anisogamy occurs in higher animals. 63. Teorposary union of the two individuals of the same species is called conjugation by conjugation is common in citiates -65 Example for conjugation is porramodum, vooticella and bacteria, 66. Organisms have 3 phases in their life 67. period of growth between the birth of the individual upto reproductive roaturity is called Juverile phase regetative Phase 68. The organisons reproduce and their offsprings neach maturity periodis called reproductive phase maturity phone. 69. Senescent phase begins at the end of reproductive phase when degeneration sets in the structure and functioning of the body. To Seasonal broaders reproduce at particular period of time. 71. Example for seasonal breeders - Frog, lizard.

	W	ww.Padasalai.Net www.TrbTnpsc.com
MANY	£ 72.	continuous breeders continue to
		breed throughout their sexual maturing 34
WWW.5984	73.	Example for seasonal breeders - Honey
	5	Poultry, rabbit.
DERTANNA	74.	Development of own egg into a com, 35
	5	individual without fortilization is
BEANNIN		Development of an egg into a complete individual without festilization is known as parthernogenesis.
9/8/ //	75	parthinogenesis was first discovered
1869 August		by charles Bonnet in 1745.
120×11	= 76.	Two types of parthenogenesis are
P0989		Natural parthennameris and Artifuals
Wolden .	a	parthenogenesis.
nada?	77.	1-8 parthenogenesis occurs regularly,
WWW.		constantly and naturally in their
208		life cycle and is known as
MANYERRA		Natural parthenogenesis.
	578.	only males are produced by parthenogenes
WANT BEEN		only males are produced by parthenogenesis
	19.	troople for Arohenotoky Honey bell !
isba Tullia	80.	Only ternales
	1	Only fernales are produced by parthenogenesis is soiled to be Thelytoly
EBB97NNN	01	Enample for That I
1900	01.	Trigtoky is solenobia.
	82.	Egg may develop into individuals of any sex is sorphitoky.
	82	Escapela dos Amelia
1569 THUM	00.	Escapple for Apphitolog is Aphis.

www.Padasalai.Net 34. Two types of Natural partheriogenesis are complete parthenogenesis and Incomplete parthenogenesis. 35. There is no bipaviental reproduction and no onale organism in complete partherogenous 86. Both sexual reproduction and parthenogram occurs in incomplete parthenogenesis 87. Example for incomplete partherogenesis 88. In honey boes, festilized eggs develop into 89 In honey bees, unfestilized eggs develop into drones - wales) 90. The larvae produce a new generation of larvae by partherogenesis in poedogenetic parthernogenesis parthernogenesis 91. paedogenesis occurs in sporocysts and Radia larvae of liver bluke. 92. The unfestilized egg is induced to develop into a complete individual by physical or chemical stimuli in Artificial parthenogenesis 93. Example for artificial parthinogenesis is Annelid and seauschin eggs. 94. The young hatch from eggs laid outside the mother's body is ovipanous.

	www.Padasalai.Net
The second	115 surample for ovirparous is Reptiles d
No. of the last of	birds.
1	96. The animals give birth to young ones.
	96. The animals give birth to young ones are said to be viviparous,
The State of the S	ay Vivipante is a type of development
	which the young ones are born alive uterus
The state of	after being nowrished in the uterus
A STATE OF THE PARTY OF THE PAR	through the placeonta.
The state of	through the placenta. 98. Excaragle for viviparity marrinals.
S. S	99. The embryo develops inside the egg
- PROPERTY OF	
	until they are ready to hatch is
	ovoviviparous.
	100. The empryos have no placental
	Connection with the mother and neceive their nowishment from the yolk sail
	their nowusing
	in Ovorinparity.
	101. Ovovivipanty is seen in fishes like Shark
	102. The viviparous Lemon whark gives birth
	to a young one, which is still attached by its placental count
Management 1	by its placental corol
No. of Persons in Contract of Street, or other	
	103. Development of the whole body of an
	organison from a small fragment is
	Regeneration.

a section	WV	ww.Padasalai.Net = www.TrbTnpsc.com
	20.	what is sporogony? 3 What are sporozoiles? 3 and menozoiles 14
	21,	what are sporozoiles.
	22.	What is oppositely
	23.	what is amber
	2/1	Draw the diagram showing tregul.
		Storple binary fission
8	25.	Draw the diagrams showing longituding
		binary fission in Eugline
	26.	Draw the diagram showing multiple
		fission in plasmoolium.3
	27	What is strobilation? 3
	28.	Draw Multiple fission in encysted Amock.
		Draw strobilation in Aurelia 14
	30.	What is plasmotomy? 4
	31.	what is sporulation?4
		what is budding? 4
	33,	What is exogenous budding? 5
	34.	What is endogenous budding? 5
		What is tragmentation?/ pedal laceration
		what is morphallaxis? 6
		what is episoophosis? 6
	38.	What is regeneration? b
	39.	what is reparative regeneration?
		What is restorative negeneration?
	41.	What is sexual reproduction? 7
		What are geromules? 5
	103 10 10 10 10	What is syngamy? >

Au	www.Padasalai.No	THE SEAL OF THE SE
100 miles		external festilization? 7
	what is	Jerhlization, 7
1000	what is	autogamy ?7
	What is	exogamy? 7
	what is	hologamy? 7
	What is	Paedogarny?,7
	what is	merogamy? 7
	what is	isogamy? 7
52	what is	anisogamy?7
53.	what is	Corjugation? 7
		e those phases in the life
	0 0	vo organisms. 7
55,		juvenile phase?/ vegetative phase,
		reproductive phase maturity
	phase? 7	Altoria Mariana
57	what is	Senescent phase? 7
58	what are	
59		continuous breeders? 7
		parthenogenesis? 7
61.	What is	Natural partheriogenesis? 7
	what is	,
100	What is	incomplete parthinogenesis? 8
64		Arrhenotoky 28
	what is	Thelytoky? 8
The same of the sa	what is 1	Dardogenetic farther ogeneral 1 8.1
	what is	artificial parthernogenesis?8
	(A) (1) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	

18		ww	w.Padasalai.Net
		69.	Depending on the site of devolu
			Depending on the site of development of eonboyo, how the animals
38			Classified? 8
18		70.	what are oviparous animals?
3.9			what are viviparous animals?
) E		72.	What are ovoviviparous aminoaliza
		73.	What is apolysis?
3/8		74.	Draw the diagram Showing apolysis in Taenie Diagramatically represent Regeneration in Hydro Diagramatically represent Reparative
		76	Diagramatically represent Reparative
3,5			regeneration in startish 6
		77.	Draw sporulation in Amoeba 5
18		78.	Draw sportlation in Amoeba 5 Draw budding in Leucosolenia (sponge)
		79.	Draw budding in Hydra. 5
3,8		80.	Draw Germonule in sponges. 5
			Maria Caraca de La constitución
Ç			
3,7			A Control of the Cont
3/8			
3,8			
18			
3.9			
) E			
	-12b	~	Coonned by Com Coor

	www.Padasalai.Net
10.	The primary Reproductive organs are
	testes and ovary
Section 1	Testis produces sperros.
12	oxary produces oxusos
13.	gonads help in the development of the
	secondary sexual characteries.
14.	The accusory organs help in transport
	and to sustain the gametes and to
	and to sustain the garnetes and to nurture the developing emboyo.
15.	Testes are the prironary male sex organs.
111	por one of the representator
16.	The scroturos acts as a thermoregulator
	for aperoratogenesis.
.17.	Testes is covered by outermost layer called tunica albuginea
	Called tunica aipagirie
18.	Tunica albuginea is divided by septa into about 200-250 lobules.
	into about 200-250 looves.
19.	Seminiferous tubule is made of two
	Seminiferous tubule is made of two types of cells sentolicelle or nurse colls
	and spessoratogonic cells or rosale genos
20	Sertoli cells secretes à horronne
21	called inhibition.
041	I shibition is unvolved in the regaine
	feedback control of speron
	production.
A TA	

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22	Leydig cells or Interstitial cells
	secrete androgens
1	testasterone.
23	Testosterone ionitiates The process of
	speroratogenesis.
24.	The epididyonis ou single coiled tube that
	temposarily stores the spermato 20a.
25	The epidialymis leads to the vas defences
26	of the male reproductive system.
5	of the male reproductive system.
27	The voethroa originales broom the
	usinary bladder
28	3. The Unethroa extends through the
	peris by an external opening called
	Urethrat meatus.
29.	The sessional vesicles secrete an alkaline
	third called servinal plasma
30,	servinal plasma contains coagulating longume called vesiculose which enhances
	enzyone called residuace which enhances
	Speron motility.
31.	prostrate gland secretes audic fluid.
	Contains citrole, inzyones and prostra
	specifie antigens.
THE PARTY OF THE PARTY OF	

www.Padasalai.Net al fluid www.TrbTnpsc.com white third which contains spersons. 3 Geniral fluid act as a transport medium, provides nutrients, contains cherricals, facilitate their movement. 4. The people is the male external genitalia functioning as a copulatory ongan. 35. The enlarged end of the penis called glans penis is covered by a loose fold of sicion called foresicion or prepuce 36 ovaries are the primary fernale sex organs produce female gamete overn. 37. Inner most layer of ovaries are turica albuginea. 38 The ovary remains attached to the pelvic wall and the uterus by an ovarian ligament called mesoovasium

The follopian tube bears funnel shaped in fundibulum The edges of the infundibulum has many finger like projections called firmboiae

41	www.Padasalai.Net The infundibulum leads to a wider
	Central position Certific
1 A2.	The last part of the oxiduct is the
	1strous
43.	Istornus is short and three walled
	Istomus is short and three walled connecting the ampulla and infundibuluon to the
	infanau pricusos
44.	the major portion of the uterus
A.C.	is the post
45.	The rounded region superior to intermit is the fundams.
46	
	through a narrow cervix.
	The outermost layer of the uterus
	is perimetrium.
48:	The middle thick musular layer cailed opposet sium.
	1010001010101
49.	the inner grandular layer is
50	The endormetrium
	The endormetoi woo undergoes cyclic changes during the meant ral cycle.
51	Myornetrium exhibite eterma
	Myornetriurs exhibits strong contractions during partwrition.
	Vagina is a large fibroronsanla
	tube, extends from cervix to the exterior.
	Saannad by CamSaan

www.Padasalai.Net www.TrbTnpsc.com 53 vagina is a female organ of copulation. 54 Bontholins glands are located posterior to the left and right of the opening of the vagina. 55. Bartholin's glands are also called greater vestibular glands. 56. The Skernes glavads are located on the anterior wall of the vagina 57. The external opening of the vagina is parially closed by a thin ring of tissue called the hyrosen. 58 The hymnen is often torn alwring The first coitus.

9 The mammary glands inodified sweat glands present in both sexes, 60 Marorovery glands are gudimentary in the males and functional in The Jerodes 61. The pigoneonted area around the nipple is areola 62. marromany glavado coorsists of 2-25 63 The lobes of romanoromany glorado contains acini or alveoli. lokes.

www.Padasalai.Net www.TrbTnpsc.com be me alveoli opens into mammary tube 65 me mammary tubules opens into 6t. The peroral marromany ducks join to form a video maronary ampulla 67. mamorary assipulla connected to Lastiferous duct in the nipple. 68. Under the nipple, each lactiferous expands to forces Lactiferous Linus 69. Lactiferon sinus serves as a reservoir of roile. 70. Normal development of the breast begins at puberty. 71. Grametogenesis is the process of formation of gametes. 72 Meiosis plays the most significant role in the process of garnetogenesis. 73 primary sperroatacytes undergo first meiotic to form secondary sperroratocytes. 74. Secondary spersonatocytes undergo second meiotic alivision to form spermatids. 5 Spermatids are transformed into sperminación de proceso de la proceso Spermio genesis

www.Padasalai.Net www.TrbTnpsc.com 76 spersors ove finally released into the cavity of seconioniterous tubules by a process called sperioriation. 17. The whole process of sperroatogenesus takes place about 64 days. 18 The speron production remain nearly constant at a rate of about 200 million spenons per day. 9. Sperroatogenesis starts at the age of puberty 80. Spermatogenesis is initiated due to the increase in the release of gonadotropin Releasing Horrsone by the hypothalamus. & GNRH stironilates the secretion of two gonadotropins namely FSH and LH 32 FSH stimulates testicular growth and enhances the production of ABP. Androgen Binding protein. 83 1-11 acts on the Leydig cells and Stimulates the synthesis of testosterone of Testosterone Stironulates the process of spoornatogenesis.

oade	N	www.Padasalai.Net www.TrbTnpsc.com
	85	Acrosome is a small cap dido pointe
		estructure proceent at the cip of the
Maya.		nucleus of speron.
padi.	,86.	Spermatich contains hyalworidas
		a protedytic enzyme popularly
NIPAGE		known as sparrow typin
	87.	operally twisted around the axial
NWW Padde		tilament called mitochondrial spiral
V		or nebenkern.
WWW.588e	88.	Tail of sperror is formed of a central
oade		axial filament called aroneme.
Many .	89.	The human male ejaculates about
Padd		200 - 300 million speriors
	90.	organice is the process of developments
Mann,		of the
PødF	911	No more organia are formed or added after birth.
	92.	The organial cells start olividing and
WWW.59ge		enter into prophase I of merolic ! division I to form primary occytes
- ad?	93	A large number of follicles degenerate to
MANYER		during the period from birth to
oadf		Puberty.
Many .		
	The later of the l	

14 At puberty only 60,000 _ 80,000 follieles are left in each ovary 75 The sperror is the smallest human cell and the ovaro or egg cell is the lærgest human cell. 16 Out of the million eggs women possess during birth, only about 300-400 will ovulate before menopause. 17. Males produce more than 500 billion sperous in their life time. 98 At the end of gametogenesis in females each prisonary oocyte give rise to only one haploid ovur 79 Human ovum is non-claidoic, alouthal, of the cytoplasson of ovurn is opplasm. of the oxum is surrounded by inner this transparent vitelline merobrane 02. Middle thick membrane called tona pellucida 03 Outer thick coat of follicular cells called corona radiata

	www.Padasalai.Net www.TrbTnpsc.com
NAMA LA SOCI	, 104. Between The vitelline membrane
	& space is present.
	6 105. Ovarian cycle es menstrual cycle occurs once in every 28/29 day
	of normal reproductive phase.
	6 107 Absence of menstration may be a indicator of pregnancy
NAMES OF STREET	tos. Follicular phase extends from the 5th day of the cycle,
NAME DE POS	109. Follicular phase is induced by FSH on
NAMES OF STREET	110. LH and FSH attain peak level in the middle of Ovulatory phase
WWW.Paddi	III Orulatory phase starts at 14th day
WWW.Paddi	12. Release of oxusor from graffan follicle is oxulation
	. 113 Empty graafian follicle is toansformed into a transitory endocrine gland called corpus luteum.
	19 Coopus luteurs secretos progestaros
	Saannad hy Cam Saa

www.Padasalai.Net 15 progesterone is essential for maintenance of the endormetrium. 16. Luteal phase is also known as secretory phase 17. In the absence of festilisation, the coopus luteum degenerates completely and leaves a scar tissue coopus albicans. 18. Absence of oneostruation is called ameros shaea. 119. If merarche does not appear till the age of 18, it is called primary amonorshoen. 20 polymerorohopa is a term used to describe a menstrual cycle that is shorter than 21 days. 21 Example for STP chlamydiasis/Gonorahoea 22 pain associated with one orstonation is called dysonoroxxhoea. 23 pain, or cramps in the uterus is caused primary dysmenos shoea. A Endornetriosis or uterine fibroids occur in Secondary dysmenorshaea.

		www.Padasalai.Net www.TrbTnpsc.com	09999
Act of	125.	Heavy and prolonged menstrual period	W.F.
		that disrupts a woman's normal!	_ dasa
	1	that disrupts a woman's normal cactivities is referred menors hagin	W. Sagar
	126.	oligomenosohoea : a condition	4253
		with infrequent menstral periods.	W. Salan
	127.	Oligomenorthold occurs in women	0.04858 ³
		of child bearing age.	Misson
	ma.	women who regularly goes more than	09989
A STATE OF THE PARTY OF THE PAR	120	35 days without meastruating	W.Fo
		35 days without menstruating may be diagnosed with	004353
		oligomonorohoea.	V41.7
	129	sonomule is the phase in a	pada5a
N. Committee		blomand life when oxulate	W1 -)
		monstruandi	Padasa
	130,	The average age of mestopause is	MI.
000	10	45-50 years.	Paddad
			20.
	131	Mengame indicates the permanent	LPAGES
		cessation of the primary functions	200
		of the evalue.	LP.P. da Sal
	132.	renopause is the phase in a women's	
		life when ovulation and menstruation	Paddag
The second second		401051	
The second second	132 , 7	ne average age of monopause is	Wedded
		45-50 years	
		Scanned by CamSca	nner

www.Padasalai.Net fuses with a haploid ovum to form a fortilized egg or diploid zeggote. 135 The spenons deposited in the female neproductive tract urdergo capacitation which is a biochemical event. 36. Fe follicular cells are held together by an adhesive correcting substance called hyalwronic acid. 137. The acrosomal membrane disintegrales neleasing the proteolytic enzyme, hyalwronidase during spessos entry through 138 Festilisation membrane around the ovum prevents the entry of other sperms into the festilised ovum. 139. The first cleavage produces two identical cells called blastomeres 140. After 72 hours of testilisation, a loose collection of cells form a borry shaped cluster of 16 or more cells called the Morida 191 The dividing emboyo takes 4-5 days to move through the fallopian tube into cavity

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HZ.	billed hollow ball of about 100 cells	151
	Called the blastocyst. The blastocyst is composed of a single layer of large flattened cells called toophoblast	
144	The blastocyst is composed of a small cluster of 20-30 rounded cells called the inner cell mass.	152
145.	lostes colling a last trained	153
146.	The emboyo embedded in the endometrium of the uterus is called	54
252/2/19	Implantation. Implantation results in pregnancy	55,
	If the feotilised ovwoon is implanted outside the uterus is called	56
	ectopic pregnancy	57
149.	Monozygotic twiss are produced whom	8.
	a single feotilised egg splits into two during the first clearage.	59.
150.	Monozygoue traves are prodused	
	of the same sex, look alike	60.

151. Dizygohe twos are produced where two separate eggs are festilised by two separate eggs, are festilised by two separate sperms. 152 Dizygotic truits and peraduced when two separate eggs and may be of tre same sex or different sex and are non-identical. 153, Siarnese twins are the conjoined twins who are joined during birth. 154 PCOS is a complex endocrine system 155. Excessive facial or body hair growth 18 hirsutiero. 56. The inner cell mass in the blastula is differentiated into epiblast and hypoblast 57 The hypoblast is the embryonic endador 58. The cells remaining inbetween epiblast and endodern form the mesodern. 59. The extra evolvoyonie membranes are amnion, yolk sac, allantois and charion. 60. The extra embryonic membrane protect the empryo from dessication, mechanical Shock, helps in the absorption of mutrients and

10.	www.Padasalai.Net
161.	The amnion provides a buoyand 3.
	environment to protect the
	developing embryo trom injury.
, 162.	The yolk sac forms a part of 14
100 X100	the gut and is the source of the earlier
163.	the gut and is the source of the earlier blood cells and blood versels. The allastois is the structural base 15.
164.	The chorion is the outermost membran
	which encloses the evolotye.
165.	the temphoblast cells in the blastocy+ 176 send out send out several
	send out send out sever
	binger like projections called chosionic villi
167.	Chorionic villi carrying foetal blood.
168.	The chosionic villi and the uterine
	The chorioric villi and the uterine tissue form the disc shaped 78. placeola
, 169.	Placeosta is a temporary endocrine of
	Placeosta is a teorporary endocrine 79. organ formed dwing pregnancy
170.	placerla connects the factus to the to.
	placerla connects the factus to the wollical cool, uterine wall through the cumblical cool,
	The embryo's heart develops during
+	re fourth week
172 1	prisonary geron layers serve as the
P	organs develop.
C	ogens develop.

	www.Padasalai.Net www.TrbTnpsc.com
3.	www.Padasalai.Net www.TrbTnpsc.com Human pregnancy lasts for about 280
	days or 40 weeks and is called the
	gestation period.
74	The first trumester is the main period of
	organogenesis.
175.	Face of the foeters is well formed
	mith gentions at the
	Selond Tollow
176	to toether is (well formed) fully
170	de al and 15
	by the end of mine months.
111	Relaxion helps in relaxation of the
	pelvic ligarneon's at the time of
	pro tuntion.
178	The ferrale uterns & about 3 inches
	long and 2 inches mide.
179	parturition is the completion of pregnancy
	and giving birth to the baby.
180,	The events that expels the
	The series of events that expels the infant troon the uterus is collectively
	called <u>labour</u> .
81	
	Throughout the pregnancy the uterus undergoes strong contractions called
	Braxter - Hicks contractions. Ceads to
	false labour.
	Sannad by CamSa

The descent of the foetus causes diation of corvix of the uterus and vaginal canal resulting in reflex called Foetal ejection rebles or l-erguson reflex 183. Lactation is the production of milk by mammary glands. 184. The anterior pituitary responds by secreting prolaction which plays a roajor role in lactogenesis. 185, Oxytocin causes the Let Down neflex the actual ejection of milk from the alveoti of the mammary gland 186. The mammary glands secrete a yellowish fluid called colostomo during the initial few days after parturition, 187. colustruros is victo in IgA antibodies 189. Igs tentibodies help to protect the infants digestere tract against bacterial infection. 190. Breast milk is the ideal food for infants 191. Breast milk is fully sufficient till about 6 months of age.

www.Padasalai.Net to construct acts as a natural antimicrobial agent to actively Stimulate the maturation of the infants immune system & WABA Means World Alliance tor Breast feeding Action. 94 WBW means world Breast feeding week - Agust 1st week 95 UNICEF - United Nations International Childrens Emergency Fund. Al Males are said to sterile when they fail to produce viable sperms 7. Entire development of human foetus taices about 280 days (or) 40 weeks

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	3 MARK QUESTIONS	21
1.	labrita	22.
	Write the main functions of reproductive System.	23
+		24
	Mention the original reproductive events in human beings.	25
3,	Define the terro- Gametogenesis	26
4	" " - Insemination	27.
5	" " - Feotilisation	28.
6.	" - cleavage	29.
7.	" Tooplantation	30
}.		31
9.	" - Gastoulation	32
10.		33,
11.	parturition	34
12.	How the scroturos act as at Thermorega for spermatogenesis?	b35
	for spermatogenesis?	37.
13,	write the functions of sertoli cells.	
14.	what is the note of inhibitin?	8.
		7.
	Name the accessory ducts associated with the male reproductive system.	10.
	mention the accessory glands of the	
	male reproductive system.	1.
17.	What is semen?	2.
10	what is mesovarium?	
10	what is infundibulus !	3.
14,	tat is timboiae?	700

```
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            aropulla?
 21 What is
 22. what is funding?
            perimetrium?
         " myornet num?
24
             endososetsium?
   mention the parts of external genitalia,
              Bartholins glands?
27. What
28 What is Skene's glanols?
29. What
          is appela?
         Grame togenesis
30 Define
         Spermatogenesis
    1)
          Dogenesis
          is spermiation?
33, what
             Speroniogenesis?
         the process of spermatogenesis
35 Draw
         the process of oogenesis
36 Draw
         s axoneme?
37. What
         the structure of human sperm?
38. Draw
          " enlarged form of seminiferons
  tubules.
to. Draw the cross sectional view of
  sessioniferous tubules.
H. Doard the diagramatic view of female
 reproductive system.
2. Draw the diagram of Female pelvis
Showing reproductive system.
3. Draw the wale reproductive system.
```

www.TrbTnpsc.com 4. Draw the diagrammatic view of the male reproductive system. 5. Draw the toolis showing inner detail 6. Draw the sectional view of the ovary, 7. Draw the diagrammatic view of the hurosas 8. Draw the different phases of the oneonstrual cycle. t'. Mention the layers which covers the Ovum, 42 Mention the different phases of Meastra cycle, 43. what happens in menstrual phase? 44. What happens in Follicular/Proliterative phase? 15 what happens in Luteal Secretory phase?, 16. Why futeal phase is also known an Secretory phone? 7. What is coopus albicans? 8. What is PCOS POLY CYSTIC OVARY SYNDROME 9. What is amenorrhoeg? " primary amenorhoeg? " Secondary amenorshoea? what is poly menorrhoed? alysmomorshoea? what is

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	54. What is	primary dysonemorohoea?
	55 11 11	se condary "
=	The what is	onenosshagia?
600	57 what is	Oligonenos shoes?
		Menopause?
	- minat is	fertilization?
	in what is	capacitation?
6	Mention 9	capacitation? re layers of ovuro.
	62 What are	plois to 1 to 1
	by How is	polysperony prevented?
2	by what are	+ toophoblast?
	65. What is	jorplantation?
9	66. What is	ectopic pregnary
	67, what is	Monorygotic trios?
100	68. What is	Dirygotic turn?
	69.	Siamese twin?
600		placenta?
	11. Mention t	te extra erobogoniementrane
7	2 Mention	the ectoderroal derivatives?
7	3	11 Endodermal "
-		Mesoderronal !!
8		(Hostation? Ct
	71	desclared durity townson
9	17	11 11 2 11
-	18	" " " " 200 " 300d" " " " " " " " " " " " " " " " " " "
7	19. Mention The	e hormones secreted by placenta
	during	pregnancy.
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80,	what is partwrition?
	what is the function of relaxin?
82.	what is lactation?
83	what is let Down roflex?
84	what is the sole of projucion,
	which part it is secreted?
185,	what is colostrum?
The state of the s	Expand WBKI.
87	11 WABA
88	UNICEF
	The polytree of the same of th
	Market Tendering of Sea
	The date of the same of the sa
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	THE STATE OF THE PROPERTY OF THE PARTY.
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	TER: 2 - 5 MARK
1. Woile the	major Reproductive events.
2. explain m	estructure of male reproduction,
system.	so temale
3. Explais the	structure of female
	mand of anomalments.
4. explain the	process of sperroratogenesis
5 Explain the	process of Oogenesis.
6. Explais la	e stoucture of human 3
sperson vist	O . II abottle
The second second	
	0
avers with	
8. Explain #	
Messtrual	cycle.
9. Locplain 17	
fertilization	
to aintained	w the pregnancy is
esopoyonic	and explain how development takes place.
11 2:4	sievery men
". Nate a no	te on parterition
12 monte a	note on Lactation.
13. Explain A	e vole or hormones no
parturition.	e vole of hormones no
14. Explain ex	role of hormones in
Jaefation,	Nosistories in
	Scanned by CamSca

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	CHAPTER 3. REPRODUCTIVE HEALTH
1,	India's infant montality rate was 44 per
9	1000 live montality rate was 44 per
2.	Aroniocertesis is a prevatal technique
	used to detect any chrorosomae
	abovoronalities in the foetus,
3.	killing the permale shild after her
	bioth is intaroticiale.
4.	Aborting the ferrale in the mother's
	Aborting the ferrale in the mother's word' is Ferrale foeticide.
	Pront Act - procention and
6	prenatal diagnostic technique de prevention of children
2	from sexual offences.
-1	toors to assment at workplace -
1-	from sexual offences. Sexual harrassment at workplace - prevention, prohibition and reduced, prevention, prohibition and reduced,
	pherent on,
8	Oldon Jamey Marion 9
B000000	LA LI. K INTO DO DOT
9	and cook grestione
11	Menstrual cycles from position. 6-8 viceto from position tion. at about 14th day
10	Ovulation occurs at about 14th day
11	Ovulation occurs as soliable way to avoid simplest and most reliable way to avoid programay's continuous abstisionce.
U,	pregnancy & continuous abstracte

£ 12.	pelay in ovarian cycle diving breast feeding is factational ameronhoea, are made of polywretion	2 TNHSP does free screening for Cervical and breast cancer,
61 13	IN VIV	carred by Neisseria gonorhoea.
6- 14	The contraceptive pill prepared by contral Drug Research Institute was Sahali.	4. Syphilis - bacterial disease coursed of
61 15.	india contains a non-steroid preparation called cont chroman.	perios 10-90 days, bacteria,
	a caracal morodus	5 chlamydianis caused the Frentsah on
7	for fernale street surgical procedur	peniod 2-3
1	0 120 8 1 0 0	1 1011
. + 8	for male British for male British is Early medical termination is extremely safe upto 12 weeks. Of pregnancy.	In curpaniso. I female her visus Herpes
· · · · · · · · · · · · · · · · · · ·	Government of India legalized	Simply virus, - 2-2 Hurran papilloma
	According to world Health organisals	Visus, Lineapor
	globally acquires sexually transmits	b. AID - more than logs
, 11	infections. 21 million people hing with HIV.	candida albicans.
_ 1		A 28 days

the Average foctal heart book sake is but 120 and 160 best that
of the second of

www.Padasalai.Net www.TrbTnpsc.com 3 MARK Mention some of the health care programmes '-35 Differentiate foeticide and infanticide what is amonocenturies 35 what is periodic abstinence? 36 what is continuous abstinents meortion the chemical agents in the cremical barrier method, Write a note on MTP.37 Write the preventive measures 8 STD, 38 7. What is TNHSP.38 o. write a note on IUI?.41 5 what is infertility?-40 what is ART 241 What is cryopreservation? 41 what is ZIFT? 41 G1FT ?-41 N JUT 2 - 42 S wrogacy? _42

www.Padasalai.Net www.TrbTnpsc.com UNIT - 11 CHAPTER - 4 ONE MARK Branch of biology deals with the study of heredity and variation is 2. A variation is the degree by which the progery differs from their called Genetics parents. 3. The unit of hereality is lenour as 4. Gene is the inherited factor/ determines the biological factor/ the gene. Character of an organison, 5. The betterment of human race can be achieved my methods like engenits entherits and expherics. 6 when more alleles of a gene control particular trait ocupy the same lows on the homologous Chromosomes of an organism, they are called multiple alleles and their inheritance is called as

7. Hultiple allelismo occurs in hum in the inheritance of different to Rh antigen is found on the surface of blood groups. of exystrocytes. Rh factor was discovered in 1940 8. The gravest blood group AB way by Karl Landsteiner and Alexarder discovered in 1902 by the where in the blood of Rhesus Monkey. students of Landsteiners, The terror Rh factor refers to i romunogenic D antiger of the Rh 9. Beorstein in 1925 discovered that inheritance of different blood group system, The individual having Dountigen are blood groups in human beings RhD positive (Rh+) is determined by a number of The individual without Dantigen multiple allele Series, are RhD regative (Rh). universal doman blood group is o group The three autosomas alleles located on chromosome 9 Universal recipient blood group is AB group are concerned in the The determinate Co-dominant blood group is AB of blood groups in any person From AB powental combination, the 11 The new world monkey Platy sohina possible progery are AIB, AB&O. From IAI° × IAIB parental combination 12 The secretors can be detected in the possible progery are tears, saliva, wine, semen gastoic juice and is the mith ABX AB combination gives the of animals. pargeny A, B, AB.

		2	
	24	Werex proposed the existence	
1		of eight alleles at a single Rh &	2. I ordiniduals having homomorphie
		of eight alleles at a single Rh Blocus.	Det coromosome produce only
6	25	Rh incompatability has great	one type of gabrete called as
		Significance in child broth	homogametic.
E	24	significance in child broth,	He tero morphie individuals produce
		The condition of haemolysis of	two types of garnetis called as
Ł		tollal RBC resulting in hammolytic	heseogametic.
		jausalice and anaemia is	
1		Engthroplastors foetalis (or)	The size of the human y chromosome
		Harmolylic disperse of	& 60 Mb in size into 60 functional
		born (HDN).	and.
	27,	The method by which the distinct	The Change of the Mb in Size
		bottogen male and terme	x Chromotomes are 165 Mb in Size with about 1000 genes.
		established en a spe	
		to be sex oletermination,	The sex of the offspoing is
	28	The chromosome deterrorines the sex	determined at the time of
		of the individual is sex chromosoms	festilization.
	29.	The chromosomes other than the sex 7.	XX-X0 type of sex determination is
		Chronosomes of an undertained	seen in bugs some insects like
		called deutospornes:	cockroaches and grasshoppers.
	30	If sex chromosomes are similar, 3.	
		it is homomorphic.	is seen in human beings and in
		Ib sex chromosomes are dissimilar,	Drosophila.
1			
		it is heteromorphic.	
The same			

								1,22
	39. ZO-Z	I Type	of sex deter	voination		2=		
1	ic se	en in	certain moth	- butter Harris	x chroma	some v	vas disco	vered
	and	domest	in diskers.		by Ster	1200 G02	2.	
1							ave park q	Hoir body
0	10. ZW-	ZZ type	of sex dete	nd in	The Indi	Viducais	characters	and
6	occw	rs in g	ypay moth a	rephles	expressing	male	body ocep	resturg
	Vertek	bisals oc	ch as fishes,	WATER STATES	he le al	of the	body exp	to be
,	ang	Disor		human	fernate Cr	Ditter		
C	41 Oleve	s deter	roining sex in	o sere	Gynandr	morphs.		
6	burg	are	located on two	somes 54			first disco	resed
	Chron	mosomes		- 10 -	by Borr	and Ber	tram,	THE SHARE SHARE
	42. A	gers called	Sex deterror	in the 5				
	0 0 0	- 1/ abo			No Fernale	-have no	Bass body	
		Langertun	neylo		xxx male	shave one	Barr body	11-11-2
	A) The 8	V SKY is ba	t of esent in the	adult males 6	N-1 rule.	of Bar	s bodies f	onews
	50 (dan	c bala	nu mechani	isons of		1-10-000	iments are	
	Sex	deterr	rination in	Dog -	The Hyoner	ropterwor	insects are	
	was	first	studied by C. B	3. Bridge	noney weeks	1 000113	and wasps	100000000000000000000000000000000000000
			an individu		Haplodiploid	y mechan	rison is be	en in
	dete	armined.	by ratio of it	1- correct	Honey bee	is, ants	and was	ps.
	cho	cores ones	to that of	to autosing	The same			
	is t	comed a	Sen Ino	lex.			ts the sou	
	50. Sex	Index =	Number of X chron	rotom X	that supp	nessus fer	tility of the	worker.
			Vumber of Sels of An				U he different	The second second second
	51. X C	mornosom	e was discove	red by	of y chron	masomes	are called y	linked
	Hen	4.28 (189	12	AMMA	genes or	- holand	tric genes.	
	Trans.	0180	. ()(- 0/90	

Λ.		inherited traits are many than and y-linked genes in			.00	on our
t	the different	t regions do not undergo	ctour	nesorre.	are are	narge
	paining or		pairs.	deconom	volens to a	diagramatii
62.	The inherita is called 12	mae of x or y linked genes x - horted interitance	supres.	entation	of chrom	promes. drawn
6.3	Haeonophilia	is commonly known disease common in	71 pading	stardard stardard	family tree genetic &	yorko's
			for spe	the 'in edition on	peristance heristance otypic char mutation is	nactors,
69		- the a year.	gene Thalous	causes erria is	merdenam	anorden.
66	Substante	is a heriditory disease	74 Beta	thalway	nder is conf chromosom nia is also	2 16
67	1803	the carriers of the				
68	Hormophilia	mophilia, follows the chanacteristic paltern & inheritance.	77 pheny mutal on ci	hetoruria ion in the	is caused to gene 12.	PAH localed
4			CANALTY.			

and the second s	
78 In phenylketonuria charylpyrumin	
78 In phenylicetorius	can be studied in Shell coiling in
inhorn error of	can be studied in Shell coiling in Liconopea and Kappa particles in
79 Albirism is an inborn error of	
metabolism is responsible for	paramecium.
80 Pigment Manual	Limnaca penagra is a freshwater small
skin colour.	the factor
as a corion of all regards	the improvement of human since 18
alamore, the	called Engenics.
	The Town Engenics was corned org
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the autosomal	the theatonine of
gene. 33. Trisomic condition of chromoseme. 2) presults in Downs syndrome.	
82 Trisomic condition of production	e luinu of improvement of human
2) presults in Down	of man the science of improvement of human trace by improving invironmental trace by improving invironmental
84. toisoonie condition ob Notation of results in pataus	conditions is called <u>Eutherics</u> .
84. Total 13 results in pataus	Conditions 15
61-x0xxx0x011	Klinfelter's syndrom is characterised by
synation	i minting of
85 The genetic disorder due to	de Modern Engenies
85 The genetic disorders due to the presence of an additional copy	counder of Modern Engenies movement is Francis Galton.
of x chromosome is klinefeltons	Improvement of human race by
	the healthy persons
of the genetic disorder, due	rowing larly and produce darge number of children is called
the loss of	rowing largey children is called
Twiner's syndrome.	number of cualmis
	positive engenies.
87. Cytoplasmie inheritance in animals	

% In transacto book GLEWY & CON A. PRINCIPLE OF INHERITAINE AND WARRANTON 5. MOLECULAR GENETICS - 97. To type of bet determination as my type of set determination of WHO AM I & examples of walt relatinguisment I discovered two kinds of antigens 98 In an accident there is great called antigen A and antigen B on loss of blood and there is no in the surface of RBES of human to analyse the blood group, wil blood can be eately transfered (car Landisteiner) I discovered that the inheritance of different blood groups in human Egg mangolism is a genetic disso beings is determined by a number which is caused by the prosens of an extra chromes of multiple allelic series (Bernstein in 1925) We discovered Rh tactor in the rumber 2. 100 Farmer of a child to colourons blood of rhesus monkey. and protter is corrier test (Karl Landsteiner and Alexander) combinations. The probabil I proposed the excistence of eight of the child being colour blind alleles at a single Rh locus, 15 50% I first bludied the Genic balance A roosing between a colonio nossal woman mechanism of sex determination cossuer dangs sub mon and a un prosophila. produces as spreak port C.B. Bridges. we first observed a conderned body in the nerve cells of ternale. 102 Barr and Bertram (1949)

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7. I suggested that Barr body	
represented an inactive chromos	
(Mary Lyon)	
, 8. I first reported the heriditary	The second
disease Haemonhilia extrin is	
commonly known as bleeders	
disease.	N. Committee of the com
John cotto (1803)	
a limple method	
of culturing lyonphocytes from the human bload.	10 m
Gross the human bullet	
Tin one Lever	多
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the transonission of the eytoplasmic war	
cappa particles in paramolium au	
(Sonneborn)	10
	100
11. I coined the term Engerics.	
(Francis Galton (1885))	7
12. I coined the terror Euphemic	3
(Joshua Lederberg (1960))	Sales Sales
	S. S
" Salar Sala	Carried States
	THE STATE OF

Prepared by M.jeyakodi M.sc., M.Phil., Zoology P.G.Assistant

