NEET BIOLOGY

REPRODUCTIVE HEALTH

1.	What are the various ways through which the reproductive health can be improved?					
	I. Education					
	II. Awareness					
	III. Encouraging myths					
	IV. Ban on amniocentesis					
	a) I and II	b) II and III	c) III and IV	d) I, II and IV		
2.	Which IUD increases the	phagocytosis of the spern	ns within the uterus?			
	a) Non-medicated IUD		b) Copper releasing IUD			
	c) Both (a) and (b)		d) Hormone releasing IU	ID		
3.	The permissible use of th	e technique amniocentes	is is for			
	a) Detecting any genetic a	abnormality				
	b) Detecting sex of the un	born foetus				
	c) Artificial insemination					
	d) Transfer for embryo in	nto the uterus of a surroga	ate mother			
4.	Find out the natural contr	-				
	I. Implantation	•				
	II. Lactational (amenorrhoea)					
	III. Condoms					
	IV. Vasectomy					
	V. Tubectomy					
	VI. Sterilisation	h) III and IV	a) Wand W	d) Ombrill		
_	a) I and II	b) III and IV	c) V and VI	d) Only II		
5.	"Theory of four humors"	= = =) Al 1	וא או		
_	a) Theophrastus	b) Aristotle	c) Alexander	d) Pluto		
6.	Female condoms are called	ed	127 1 1			
	a) Femidom		b) Female condom			
	c) Contraceptive condom	l	d) None of these	d) None of these		
7.	NSEP stands for					
	a) National Smallpox Era	-	b) National Sickness Eradication Programme			
	c) National Syphilis Erad	_	d) None of the above			
8.	Study of population trend	ds is:				
	a) Kalography	b) Psychobiology	c) Biography	d) Demograghy		
9.	Find out sexually transmitted diseases among the given below					
	I. AIDS II. Syphilis					
	III. Gonorrhea IV. Malar	ia				
	V. Hepatitis-B VI. TB	b) W I II J III	-) I II III III	מז ל ע עו ווו וו ו ל		
10	a) I, II, V and VI	b) VI, I, II and III	c) I, II, III and V	d) I, II, III, IV, V and VI		
10.	What is the difference in	=				
	a) They differ in their site	es of implantation	b) They differ in their duration of action			
	c) Both (a) and (b)		d) None of the above			
11.	ICSI stands for					
	a) Inter Cytoplasmic Sem		b) Intra Cytoplasmic Sen			
	c) Inter Cytoplasmic Sem	en Injection	d) In Cytoplasmic Semer	Injection		
12	CDRI is situated in					

	a) Delhi b) Kanpur	c) Lucknow	d) Tamil Nadu		
13.	Find out the right aspects of lactational amenor	rhoea			
	I. Ovulation do not occur during the lactational period				
	II. Chances of the failure of contraception are all	most nil upto six months follo	owing parturition		
	III. Side effects are almost nil IV. It is a natural method of contraception				
	V. It increases phagocytosis of sperms				
	a) II, III, IV and V b) All except V	c) II, III, IV and V	d) All of these		
14.	'Population explosion' being witnessed is mainly	y due to:			
	a) Better job facilities	b) Increase in agricultu	ral production		
	c) Better health care	d) None of these			
15.	Maximum growth rate occurs in:				
	a) Lag phase b) Exponential phase	e c) Stationary phase	d) Senescent phase		
16.	What is the purpose of surgical method of contr	aception?			
	a) Prevent gamete motility	b) Prevent gamete form	nation		
	c) Gametogenesis promotion	d) Facilitate implantati	on		
17.	Choose the WHO's statement about reproductive				
	I. Healthy reproductive organs with normal fund				
	II. Total well being of physical, emotional, behav III. Free of all STD (Sexually Transmitted Diseas	-			
	a) I and II b) I and III	c) II and III	d) Only II		
18.	Lactational amenorrhora is	0) 11 4114 111	w) 0.11.j 1.		
	a) Absence of menses in adult age				
	b) Absence of menses in elderly age				
	c) Absence of menses during lactation				
	d) No menses during pregnancy				
19.	Most thickly populated country is:				
	a) Bangladesh b) Australia	c) U.S.A	d) India		
20.	What is the use of condoms?				
	a) Decreases sperm motility	b) Increases sperm mo	tility		
	c) Barrier to prevent fusion of sperm and ova	d) Increases phagocyto	sis		
21.	Amniocentesis is a technique to:				
	a) Estimate essential amino acids in the body	_	l anomalies in the foetus		
	c) Reverse sex of the foetus	d) Correct genetic diso	rders of the foetus		
22.	Test tube baby is a technique where:				
	a) Zygote is taken from the oviduct cultured and	_			
	b) Ovum is taken out, then fertilized and implan				
	c) Sperm and ovum are fused and zygote grown	in a test tube			
22	d) None of the above In a population, the condition at which the rate.	of addition of now mombors	is more than the rate of		
23.	In a population, the condition at which the rate individuals lost indicates:	of addition of flew filefilbers	is illore than the rate of		
	a) Zero population growth	b) Exponential growth			
	c) Declining growth	d) None of these			
24	Which oral contraceptive is developed by CDRI?	•			
- 1.	a) Saheli b) Mala-D	c) Both (a) and (b)	d) None of these		
25.	Identify the correct statements	o, 2001 (a) and (b)	a, 1.0110 of 611000		
٠.	I. Infertility is the inability to produce viable offs	springs due to the defects in t	the female partner		
	II. Complete lactation helps in contraception	1 0	1		
	III. Spreading awareness can help to create a rep	-			
	a) II only b) I, II and III	c) II and III	d) I and III		
26.	What is true about 'Saheli'?				

- I. Developed at CDRI, Lucknow
- II. Contains a steroidal preparation
- III. 'Once-a-week' pill
- IV. Many side effects
- V. High contraceptive value
- VI. Very few side effects
- VII. Low contraceptive value
- a) I, II, III, V and VI
- b) I, III, V and VI
- c) I, II, III, IV and V
- d) I, III, IV and V

- 27. Which of the following match is the correct?
 - I. STDs Sexually Transmitted Diseases
 - II. VD Venerable Disease
 - III. RTI Reproductive Tract Infection
 - a) I and II
- b) II and IV
- c) I and III
- d) I, II and III

- 28. NFCP stands for
 - a) National Filaria Control Programme
- b) National Smallpox Control Programme
- c) National Fever Control Programme
- d) None of the above
- 29. The technique called Gamete Intra Fallopian Transfer (GIFT) is recommanded for the females
 - a) Who can't produce an ovum
 - b) Who can't retain the foetus inside the uterus
 - c) Whose cervical canal is too narrow to allow the passage for the sperms
 - d) Who can't provide suitable environment for fertilisation
- 30. IVF involves the fertilisation ... A... the body followed by ... B...
 - a) A-outside; B-test tube

b) A-outside; B-embryo transfer

c) A-inside; B-embryo transfer

- d) A-inside; B-embryo transfer
- 31. Greatest biological problems faced by human beings is:
 - a) Population explosion

b) Depletion of ozone layer

c) Depletion of natural resources

- d) Land erosion
- 32. Which one of the following is the most widely accepted method of contraception in India, as at present?
 - a) Cervical caps

b) Tubectomy

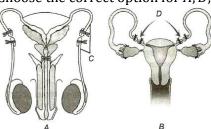
c) Diaphragms

d) IUDs (Intra uterine devices)

- 33. Common STD in India is
 - a) Syphilis
- b) Gonorrhea
- c) AIDS

- d) Herpes
- 34. The prenatal technique to determine the genetic disorders in a foetus is called
 - a) Laparoscopy
- b) Amniocentesis
- c) Abstinence
- d) Coitus interruptus

35. Choose the correct option for *A*, *B*, *C* and *D*



- a) A-Tubectomy, B-Vasectomy, C-Fallopian tube cut and tied, D-Vas-deferens cut and tied
- b) A-Tubectomy, B-Vasectomy, C-Cervix, D-Vas-deferens cut and tied
- c) A-Vasectomy, B-Tubectomy, C-Vas deferens cut and tied, D-Fallopian tube cut and tied
- d) A-Tubectomy, B-Vasectomy, C-Vas deferens cut and tied, D-Fallopian tube cut and tied
- 36. What is correct about a test tube baby?
 - a) Fertilization in female's genital tract and growth in test tube
 - b) Rearing of premature born baby in an incubator
 - c) Fertilization outside and gestation inside mother's womb
 - d) Both fertilization and development are done outside the female genital tract
- 37. NLCP stands for

	a) National Lyma Control	Drogrammo	h) National Language Contr	ol Drogramma
	a) National Lyme Controlc) National Lesion Contro	-	b) National Leprosy Control Programmed) None of the above	
30	The main factor of popula	-	d) None of the above	
50.	a) More of birth rate	b) less of death rate	c) Lack of education	d) All the above
39	Which of the following is a		_	a) in the above
07.	a) Loop	b) Copper-T	c) Diaphragm	d) Dalcon shield
40	Copper-T prevents:	b) dopper 1	c) Diapinagin	a) Balcon Sinera
10.	a) Ovulation	b) Fertilization of egg	c) Implantation	d) Both (B) and (C)
41.	Find out the correct states	,	ojp	a) 2001 (2) una (0)
		of contraception technique		
	II. Copper-T prevents imp			
		emen containing no sperm		
	a) I and II	b) II and III	c) I and III	d) I, II and III
42.	Ist, 2nd, 3rd dose of DPT is	s given by		
	I. 6 weeks after birth II. 10 weeks after birth			
	III. 14 weeks after birth			
	IV. 24 weeks after birth			
	V. 29 weeks after birth			
	a) I, III and IV	b) III, IV and V	c) I, II and III	d) V, I and II
43.			the oral contraceptive pills	
	a) FSH	b) Inhibit	c) Progesterone	d) Testosterone
44.	Growth curve is normally:			
4 =	a) J-shaped	b) V-shaped	c) S-shaped	d) C-shaped
45.	Which one of the following	=		
	= = = = = = = = = = = = = = = = = = =		rupt increase in gonadotro	pic normones
		cle of menstruation is calle action about 40 ml blood is		
	d) The menstrual fluid car		1051	
46	Which of the following bir	•	considered as the safest?	
10.	a) The rhythm method	th control measures can be	b) The use of physical bar	riers
	c) Termination of unwant	ed nregnancy	d) Sterilization techniques	
47.	Sterilization method used		-	
	a) Vasectomy	b) Tubectomy	c) Both (a) and (b)	d) None of the above
48.	The first case of IVF-ET te	•		.,
	a) Bayliss and Starling Tay	•	b) Robert Steptoe and Gill	oert Brown
	c) Louis Joy Brown and Ba		d) Patrick Steptoe and Ro	
49.	· ·	=	diaphragms, cervical cap an	
	a) For lubrication		b) For shining	
	c) For increasing effective	eness	d) None of the above	
50.	NMEP stands for			
	a) National Measal Eradic	ation Programme	b) National Mumps Eradio	cation Programme
	c) National Malaria Eradio	cation Programme	d) None of the above	
51.	Example of the non-medic			
	a) Cu-T	b) Cu-7	c) Multiload-375	d) Lippes loop
52.			ly healthy society was taken	
= ^	a) 1950s	b) 1960s	c) 1980s	d) 1990s
53.	Condition in which motilit	= =) (1)	15 A .1
r /	a) Azospermia	b) Polyspermia	c) Oligospermia	d) Asthenospermia
54.	Diaphragms, cervical caps	and vauits are		
	a) Are non-usable		b) For female use only	

	c) For male use only	d)	None of these	
55	Detection technique for AIDS is	uj	None of these	
55.	a) PCR b) ELISA	c)	Both (b) and (c)	d) Clinical culture
56.	In delaying pregnancy or spacing amo	-	, , , , , ,	a) difficult culture
00.	a) IUD b) Natural	=	Oral contraceptive	d) Pills
57.	Reproductive health is the well-being	,	orar contraceptive	u) 1 1115
071	a) Physical aspects		Emotional and behavior	ural aspects
	c) Social aspects	=	All of the above	ar ar as poots
58.	In female sterilizationA is cut and	•		
	Fill correct option for A and B	p		
	a) A-cervix; B-vasectomy	b)	A-Fallopian tube; B-tub	ectomy
	c) A-cervix; B-tubectomy	=	A-Fallopian tube; B-vas	=
59.	Which of the following is most convin	=	=	-
	a) High birth rate	b)	Low mortality rate	-
	c) Low population of old people	d)	High population of your	ng children
60.	Difference between ZIFT and IUT lies	in the		
	a) Methodology	b)	Nature of the sperms	
	c) Nature of the cells	d)	Number of the cells	
61.	Progesterone in the contraceptive pill	:		
	a) Prevents ovulation	b)	Inhibits estrogen	
	c) Checks attachment of zygote to end	ometrium d)	All the above	
62.	Ideal contraceptive should be			
	I. User-friendly			
	II. Easily available			
	III. Effective IV. Interferring coitus			
	V. Expensive and effective			
	a) I, IV and III b) I, IV and	V c)	I, II and III	d) I, IV and V
63.	IUD stands for	,	,	,
	a) Inter Uterine Devices	b)	Intra Uterine Device	
	c) Inter Uterine Development	_	Intra Uterine Developm	ient
64.	<i>In vivo</i> fertilisation involves the fertil	isation that takes p	place	
	a) In the laboratory b) In the ut	erus c)	Outside the uterus	d) Either (a) or (b)
65.	A woman who substitutes or takes the	place of the real n	nother to nurse the emb	oryo is called
	a) Interrogate mother	b)	Surrogate mother	
	c) Both (a) and (b)	d)	None of the above	
66.	Which of the following is wrongly mat	ched?		
	a) IUI-semen collected from husband	or donor is artificia	ally introduced either in	nto the vagina or into the
	uterus			
	b) GIFT-transfer of embryos with mor		res into the Fallopian tu	be
	c) ICSI-sperm directly injected into the			
	d) ZIFT-transfer of embryos with upto		to the Fallopian tube	
67.	Choose the correct causes for the pop	ulation growth		
	I. Decline in death rate			
	II. Rapid increase in MMR and IMR III. Rapid decline in MMR and IMR			
	IV. Increase in the number of people, i	n the reproductive	age groun	
	V. Rapid increase in the death rate	siio roproductive	0, 0, , , ,	
	a) I, II, III, IV and V b) I, II and	(V c)	I, III and IV	d) III, IV and V
68.	The loss of forests, urbanization and i	ncreasing pollution	n due to:	
	a) Population explosion b) Global w	rarming c)	Greenhouse effect	d) Ozone depletion

69.	Find out the true stateme	ents for IUD				
	I. They are self-inserted					
	II. They are inserted by expert nurses					
	III. They may be non-medicated IUDs for example, copper releasing IUDs or hormone releasing IUDs					
	IV. They are inter uterine					
	V. Widely accepted in Ind			12 1		
	a) I, III, IV and V	b) I, II, III and V	c) I, II, IV and V	d) I, III, IV and V		
70.	Later complications of ST					
	I. Pelvic inflammation dis	ease				
	II. Abortion					
	III. Still birth					
	IV. Ectopic pregnancies V. Infertility					
	VI. Cancer					
	Choose the correct combi	inations				
	a) I, II, III, IV and V	b) I, II, III, V and VI	c) I, III, IV, V and VI	d) I, II, III, IV, V and VI		
71	=	arameter of the population	_	a) 1, 11, 111, 11, 1 tulia 11		
, 1.	a) Birth rate	b) Replacement level	c) Growth rate	d) All of these		
72	,	thin rubber/latex sheath w	•	u) An or these		
12.	a) Penis in male	b) Cervix in female	c) Both (a) and (b)	d) None of the above		
72			, , , , ,	•		
73.		=	lly Transmitted Disease (ST			
	a) AIDS—Bacillus anthro		b) Syphilis—Treponema (
- 4	c) Uretheritis—Entamoe	= =	d) Gonorrhoea– <i>Leishma</i>	nia donovani		
/4.	Choose the right one among the statements given below:					
	a) IUDs are generally inserted by the user herself					
	b) IUDs increase phagocytosis reaction in the uterus					
	c) IUDs suppress gameto	~				
	d) IUDs once inserted nee	-				
75.	MTP is of much risk in the					
	a) 2nd trimester	b) 1st trimester	c) 1st week	d) 2nd week		
76.	Which of the following ca	nnot be detected in develo	ping foetus by amniocentes	ris?		
	a) Sex of the foetus	b) Down syndrome	c) Jaundice	d) Klinefelter syndrome		
77.	If the rate of addition of r	new members increases wit	th respect to the individual	host of the same		
	population, then the graph obtained has:					
	a) Declined growth		b) Exponential growth			
	c) Zero population growt	:h	d) None of these			
78.	Replacement rate is estin	nated to be:				
	a) 1.8	b) 2.0	c) 2.1	d) 3.5		
79.	NCCP stands for					
	a) National Cholera Contr	rol Programme	b) National Chickenpox C	ontrol Programme		
	c) National Chickenguhya	a Control Programme	d) None of the above			
80.	Hormone releasing IUDS	=				
	a) Copper-T	b) LNG-20	c) Saheli	d) Diaphragm		
81.		•	•			
		Given below the symptoms of a disease ' x ' Infection in urinogenital tract, yellow discharge, fever, headache, feeling of illness are the common symptoms. Identify (x)				
	a) AIDS	b) Syphilis	c) Gonorrhea	d) Hepatitis-B		
82			s because of the following r			
J.	a) These are effective har	= = =	b) They do not interfere v			
	c) These help in reducing		d) All of the above	vidi coitai act		
83			duction of gametes into the	oviduct:		
05.	a) MTS	b) ET	c) IVF	d) POST		
	aj mio	0) 1.1	C) IVI	uj 1 03 1		

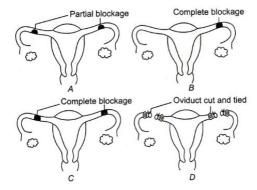
84.	Correct surgical method	d of contraception is				
	a) Ovariectomy	b) Hysterectomy	c) Vasectomy	d) Castration		
85.	Infant mortality rate is	minimum in:				
	a) Sweden	b) Japan	c) England	d) USA		
86.	Consider the statement	s given below regarding con	ntraception and answer a	s directed there after:		
	(1) Medical termination	n of pregency (MTP) during	first trimester is general	ly safe		
	(2) Generally chances o	of conception are nil until mo	other breast-feeds the in	fant upto two years		
	(3) Intrauterine devices	s like copper-T are effective	contraceptives			
	(4) Contraception pills	may be taken upto one weel	k after coitus to prevent	conception		
	Which two of the above	e statements are correct?				
	a) 1,3	b) 1,2	c) 2,3	d) 3,4		
87.	Vitamin-E is also called			•		
	a) Antisterility vitamin		b) Antihelmenthic hor	rmone		
	c) Inorganic antisterilit	y vitamin	d) None of the above			
88.		ement regarding the ZIFT pi				
		female donor are transferre		from a female donor and		
	to the fallopian tube to facilitate zygote formation transferred to the fallopian tube					
	c) Zygote is collected from a female donor and d) Ova collected from a female donor and to			•		
	transferred to the ut		to the uterus			
89.	First dose of BCG vaccir	ne is given at the time of				
	a) Birth		b) 6 months after birth			
	c) 8 months after birth		•	d) 10 months after birth		
90.	RCH stands for					
	a) Reproduction and Child Healthcare		b) Reproductive Cum	Hygiene		
	c) Routine Check-up of Health d) Reproduction of Child Health and Care					
91.	•	re given regarding MTP. Cho				
	i. MTPs are generally advised during first trimester					
	ii. MTPs are used as a contraception method					
	iii. MTPs are always surgical					
	iv. MTPs require the ass	sistance of qualified medical	l personnel			
	a) ii and iii	b) ii and i	c) i and iv	d) i and ii		
92.	Oral contraceptives hav	ve hormonal preparation of				
	a) Progesterone	b) Oestrogen	c) Both (a) and (b)	d) None of the above		
93.	A makes the uterus	unsuitable for implantation	and the cervix hostile to	B Find out the correct		
	option for A and B to complete the given NCERT statement					
	a) A-Hormonal releasin	g IUD; B-spermatogonia	b) A-Hormonal releasing IUD; B-sperms			
	c) A-Sperms; B-Hormon	nal releasing IUD	d) A-Sperms; B-ova			
94.	Reproductive health inv	volves which of the followin	g?			
	a) Creating awareness		b) Providing facilities and support			
	c) Finding new technique	ues	d) All of these			
95.	Match the given fertilisation methods (A-H) to their respective characteristic (I-VI)					
	I. Collected gametes are made to form the zygote in the laboratory					
		II. Zygote or early embryo with upto 8 blastomeres is transferred into the oviduct				
		an 8 blastomeres, is transfe				
	_	es in the female reproductiv				
	V. Transfer of the ovum VI. Sperm is injected int	from a donor to the oviductor to the ovum in witro	t of the recipient			
	A. GIFT B. ZIFT	o are ovain, in vill o				
	C. AI D. ICSF					
	E. IUT F. IVF					
	G IIII H In mino	fertilisation				

	Codes				
	a) I-F; II-B; III-E; IV-H;	V-A; VI-D	b) I-G; II-B; III-F; IV-H;	V-A; VI-D	
	c) I-G; II-B; III-F; IV-H;	V-C; VI-F	d) I-F; II-B; III-A; IV-H;	V-A; VI-G	
96.	STDs caused by bacteri	a is/are			
	a) Syphilis	b) Gonorrhea	c) Both (a) and (b)	d) None of the above	
97.	Which of the following	method is used when male	partner is unable to insem	inate into the female partner	
	due to the low sperm co	ount?			
	a) Al	b) IUI	c) Both (a) and (b)	d) None of these	
98.	ZIFT stands for				
	a) Zygote Intra Fallopia	an Transfer	b) Zygote Inter Fallopia	an Transfer	
	c) Zygote In Fallopian T	Гransfer	d) All of the above		
99.	What is the purpose of	contraceptive pills?			
	I. They inhibit ovulation	n and implantation			
	II. They alter the quality	y of cervical mucous to pre	vent or retard the entry of	sperms	
		aculated semen from enter	ing the female vagina		
	IV. They inhibit sperma	_) I 111	D 1 11 111 1 111	
100	a) I, II and IV	b) I, II and III	c) I and II	d) I, II, III and IV	
100.	Scientific study of huma	= =		D. V	
101	a) Dramography	b) Dandrography	c) Damography	d) None of these	
101.	Population explosion h		3.400	D = 0	
400	a) 500 years	b) 300 years	c) 100 years	d) 50 years	
102.		and the 4th booster dose of	•	•	
	a) 10 years and 15-16 y		b) 2 years and 5 years		
	c) 4 years and 10 years		d) 6 years and 15 years		
103.		esterone, progesterone oes			
a) 72 hr b) 48 hr c) 24 hr d) 96 hr				d) 96 hr	
104.	Cu ²⁺ ions released from copper releasing Intra Uterine Devices (IUDs)				
	a) Prevent ovulation				
	b) Makes uterus unsuit	=			
	c) Increases phagocyto	•			
	d) Suppresses sperm m	=			
105.	Which of the following	disease is curable?			
	I. Hepatitis-B				
	II. HIV				
	III. Genital herpes a) I and II	b) II and III	c) I and III	d) All of these	
106		•	•	ervicalB to prevent the	
100.		ibits and implantation	if as the wen as quality of c	ervicarb to prevent the	
	entry of sperms. Choose the correct ention for A and B to complete the given statement of NCEPT toythook.				
	Choose the correct option for A and B to complete the given statement of NCERT textbook a) A-ovulation; B-mucous				
	b) A-oogenesis; B-struc				
	c) A-oogenesis, B-nucle				
	d) A-spermatogenesis,				
107		b-mucous he withdrawl method of na	tural contracontion		
107.	This sentence is	he withthawi method of ha	turar contraception.		
	a) True		h) Falco		
		romotimos (h)	b) False		
100	c) Sometimes (a) and s NACO stands for	omenmes (D)	d) Neither (a) nor (b)		
τηρ.		ol Organization	h) National Asistad Com	atrol Organization	
	a) National AIDS Contro	-	b) National Asisted Cor	_	
100	c) National AIDS Control	-	d) National AIM for Co	iu oi Oi gailisadoll	
109.	In the production of tes	it tube bables :			

	=	and foetus formation is in				
	=	and foetus formation is ex	ternal			
	c) Fertilization and foetus					
	d) Fertilization and foetus					
110.	Which of the following is t	the most sparsely populate	d state of India?			
	a) Manipur	b) Arunachal Pradesh	c) Rajasthan	d) Meghalaya		
111.	Indian population forms v	vhat percentage of world p	opulation?			
	a) About 16%	b) About 7%	c) About 20%	d) About 21%		
112.	Every person is India	n in world				
	a) Fifth	b) Sixth	c) Ninth	d) First		
113.	On which day, world popu	lation touched 5th billion?				
	a) May 11, 1985	b) July 11, 1986	c) May 11, 1987	d) July 11, 1987		
114.			males. Choose the correct of	• •		
	given below:	,				
	i. They are introduced into	the uterus				
	ii. They are placed to cove					
	iii. They act as physical ba	-				
	iv. They act as spermicida	=				
	a) i and ii	b) i and iii	c) ii and iii	d) iii and iv		
115			elow identity the one which	•		
115.	affect the sex organs:	itteu uiseases mentioneu b	elow lucifulty the one which	i does not specifically		
	•	h) AIDC	a) Canamhaa	d) Canital wants		
116	a) Syphilis	b) AIDS	c) Gonorrhea	d) Genital warts		
116.	Family planning program		-) 1071	J) 1001		
	a) 1941	b) 1951	c) 1961	d) 1981		
117.	Withdrawl method of natural contraception					
	a) Withdrawl of penis before	ore ejaculation	b) Withdrawl of penis after	er ejaculation		
	c) Avoid sex in ovulation		d) Prefer sex in ovulation			
118.			cially when sex of the foetu	s isB		
	_	for A and B to complete th	e given NCERT statement			
	a) A-used; B-male		b) A-misused; B-female			
	c) A-used; B-abnormal		d) A-female; B-misused			
119.	Example of copper releasi	ng IUD is				
	a) Cu-T	b) Cu-7	c) Multiload-375	d) All of these		
120.	Which is related to males?					
	a) Oral pill	b) Tubectomy	c) Vasectomy	d) None of these		
121.	Medical termination of Pr	egnancy (MTP) is consider	ed safe up to how many we	eks of pregnancy?		
	a) Eight weeks	b) Twelve weeks	c) Eighteen weeks	d) Six weeks		
122.	. Identify the false statement regarding the techniques of contraception					
	I. There are many side effects of tubectomy and vasectomy					
	II. Purpose of tubectomy i	II. Purpose of tubectomy is to prevent egg formation				
	III. The most important co	III. The most important component of the oral contraceptive pill is progesterone				
	IV. Contraceptive oral pills	s help in birth control by pi	reventing ovulation			
	a) I, II and III	b) I and II	c) III, IV and II	d) IV and II		
123.	•	taken to avoid the transmi		,		
	I. Avoid sex with unknown					
	II. Avoid sex with multiple					
	III. Do protected sex	•				
	IV. Avoid sharing needle					
	a) I, II and IV	b) I, II and III	c) I, II and IV	d) All of these		
124.	When MTP was legalized	in India?				
	a) 1951	b) 1971	c) 1981	d) 1924		

125. Injections and implants (the progesterone or proges	sterone oestrogen combinat	ion) are used by the
females under the	1277	
a) Skin of the inner arm above elbow	b) Vagina	
c) Stomach's upper skin	d) Cervix	
126. Higher population in cities is mainly due to:		
a) More opportunities for education	b) Availability of clean dri	-
c) Better sanitation	d) Higher income resourc	es.
127. Population explosion is		
a) Increased frequency of diseases in population		
b) Rapid increase in population number		
c) Rapid decrease in population number		
d) None of the above	1 .	
128. The most important component of contraceptive pil		
a) Progesterone	b) Growth hormone	
c) Thyroxine	d) Luteinising hormone	
129. Find out correct choice for IUD		
I. Increases phagocytes of sperms		
II. Releases Cu ²⁺ ions that suppresses the sperms m	otility and fertilizing capaci	ty of sperms
III. Make the uterus unsuitable for implantations a) I, II and III b) I and II	c) Only I	d) None of the above
130. Which is the figure given below showing in particular	•	a) None of the above
130. Willeth is the right e given below showing in particular	11:	
a) Uterine cancer b) Tubectomy	c) Vasectomy	d) Ovarian cancer
131. In India, first census was conducted in:		
a) 1851 b) 1872	c) 1921	d) 1951
132. Infertile couples can produce a baby with the help o	f	
a) ART b) AIT	c) GIFT	d) All of the above
133. What is the function of copper T?		
a) Prevents mutation	b) Prevents fertilization	
c) Prevents zygote formation	d) (B) and (C)	
134. What was the world human population in 2000?		
a) 6 billion b) 5 billion	c) 3 billion	d) 2 billion
135. When the ovulation is expected in a normal menstru	ıal cycle?	
a) 10-17 day of menstrual phase	b) 12-14 day of menstrual	l phase
c) 10-20 day of menstrual phase	d) 6-7 day of menstrual pl	nase
136. The best way to decrease population of a country is:		
a) To educate people	b) To have better houses	
c) To kill people on large scale	d) To practise and implen	nent family planning
137. Oral polio vaccine and hepatitis first dose is given to	a child at	
a) 6 weeks after birth b) 10 weeks after birth	c) 20 weeks after birth	d) 24 weeks after birth
138. Age for marriage in India is		
Male Female		
a) 21 years 18 years	b) 25 years 17 years	
c) 20 years 20 years	d) 28 years 22 years	
139. Which of the following techniques are used in IVF? I. ZIFT II. IUT III. ICSI IV. AI V. IUI		
a) I and III b) I and II	c) II and III	d) All of these
140. High increase in human population is due to:		

a) Increase in average life spanc) Decrease in death rate	b) Better medical facili d) All of these	ities
141. According to 2001 census, Indian popul	-	
a) 684 millions b) 844 millions		d) 1128 millions
142. Chancroid is a sexually transmitted dise	,	d) 1120 mmons
a) Treponema b) Haemoph	-	d) <i>Chlamydia</i>
143. STDs are also called	ej museu u	aj antantij ata
a) VD b) RTI	c) Both (a) and (b)	d) None of these
144. Which of the following given statement		.,
I. MTP was legalized in 1971		. 1 1 1 1 2 2 2
II. Inability to conceive or produce child called infertility		cted sexual conabitation is
III. Surgical method of contraception pr	_	
IV. MTPs are relatively safe up to 20 we		
a) I and III b) III and IV	c) III and II	d) I and II
145. Population explosion occurs due to		
a) Decline maternal mortality rate		
b) Decline rate of infant mortality		
c) Better medical service		
d) All of the above		
146. Zero growth means:	h) Natalitu halangaa m	autalite.
a) Natality is less than mortality	b) Natality balances m	=
c) Natality is less than mortality 147. Population of India was approximately	d) Natality is more tha	•
a) 350 million b) 400 million	-	d) 600 million
148. MTP helps in	on cy 300 million	a) 600 million
a) Unwanted pregnancy	b) Unsafe sex	
c) Failure of contraceptive	d) All of the above	
149. Which of the following causes abortion	-	
a) Viruses b) Bacteria	c) Mycoplasma	d) None of these
150. Periodic abstinence is avoiding sex duri		a) None of these
a) Luteal phase b) Ovulatory	_	d) None of these
151. A method of birth control is:	ej menser dar phase	aj ivone of these
a) GIFT b) ZIFT	c) IVF-ET	d) IUDs
152. July 11 is observed as:	0, 111 = 1	u) 1020
a) World population day	b) No tobacco day	
c) World environment day	d) World health day	
153. Early symptoms of most STDs is	,	
I. Itching		
II. Fluid discharge		
III. Slight pain		
IV. Swelling		
Choose the correct option	I a) I Wand III	d) I II III and IV
a) I, II and IV b) I, III and II 154 During which phase of the programmy M	-	d) I, II, III and IV
a) 1st trimester b) 2nd trime		d) Ath trimactor
155. Human population growth is:	ster c) 3rd trimester	d) 4th trimester
a) Lag b) Stationary	c) Exponential	d) None of these
156. In which condition of the uterus, fertilis		a) None of these
150. III WINCH CONGRESSION OF the aterus, left tills	ación is impossible:	



- a) A and B
- b) *B* and *C*
- c) *C* and *D*
- d) A and D
- 157. According to the ...A... census report, the population growth rate was still around ...B..., a rate at which our population could double in ...a... years.

Choose the correct option for A, B and C to complete the given NCERT statement

a) A-2003; B-1.8%; C-20 years

b) A-2001; B-1.5%; C-33 years

c) A-2004; B-2%; C-34 years

- d) A-2010; B-3%; C-22 years
- 158. In male sterilization ... A... is cut and tied. This process is called B... .

Fill correct option for A and B

a) A-vas deferens; B-tubectomy

b) A-vas deferens; B-vasectomy

c) A-vas efferentia; B-tubectomy

d) A-vas efferentia; B-vasectomy

- 159. Day of periodic abstinence is
 - a) 10-11 days of menstrual phase
 - b) 10-17 days of menstrual phase
 - c) 17-20 days of menstrual phase
 - d) 20-28 days of menstrual phase
- 160. One of the legal methods of birth control is:
 - a) By abstaining from coitus from day 10 to 17 of the menstrual cycle
 - b) By having coitus at the time of day break
 - c) By a premature ejaculation during coitus
 - d) Absorption by taking an approximate medicine
- 161. Natural methods of contraception are the natural ways to
 - a) Increase spermicidal activity

b) Prevent fertilisation

c) Decrease mortality

- d) Increase mortality
- 162. Progestasert and LNG-20 are the examples of
 - a) Non-mediated IUDs
 - b) Copper releasing IUDs
 - c) Hormonal releasing IUDs
 - d) All of the above
- 163. Identify the correct statements
 - i. Birth control pills are likely to cause cardiovascular problem
 - ii. A woman who substitutes or takes the place of the real mother to nurse to embryo is called surrogate mother
 - iii. Numerous children have been produced by in vitro fertilisation but with some abnormalities
 - iv. Woman plays a key role in the continuity of the family and human species
 - v. Foetal sex determination test should not be banned
 - a) I and II
- b) II and IV
- c) III and V
- d) I, II and IV
- 164. Pills have to be taken daily for period of ...A... days. Starting preferably within first five days of menstrual cycle?

After a gap of ...B... days, it has to be repeated in the same pattern

Complete the given NCERT statement by filling up the blanks A and B

- a) A-27; B-1
- b) A-21; B-7
- c) A-22; B-5
- d) A-24; B-4

165. Amniocentesis is a process toa) Determine any disease of heartb) Determine any hereditary disease of the embryoc) Know about the diseases of the braind) Grow the cells on the culture medium)	
166. Secondary infertility is		
a) Patient who can't do coitus (sex)	b) Sterility	
c) Impotency	•	pregnancy but failure to
c) impotency	conceive subsequen	
167. What is false for GIFT?	concerve subsequen	itty
a) It is Gamete Intra Fallopian Transfer		
b) Ovum is transferred into the oviduct		
c) Zygote is transferred into Fallopian tube		
d) Used when the receptive is sterile (don't produc	re ova)	
168. Misuse of amniocentesis results in	, c c c c c c c c c c c c c c c c c c c	
a) Male foeticide b) Female foeticide	c) Both (a) and (b)	d) None of these
169. Worlds AIDS day and world earth day are celebrate		,
AIDS Day World Earth Day		
a) 22 April 1 December	b) 2 December 24 A	pril
c) 1 December 22 April	d) 2 December 24 A	april
170. Copper releasing IUDs are used for suppressing the	•	
a) Activity of ova	b) Activity of the uteru	S
c) Motility of the sperms	d) Motility of ova	
171. 'Hum Do Hamare Do' slogan for encourages	-	
a) Family planning b) Immunisation	c) Electric growth	d) Patriotism
172. The birth control device not used by women is:		
a) Diaphragm b) Oral pill	c) Condom	d) Copper T
173. Incidents of STD are very high among persons, in the	he age group of	
a) 15 to 35 years b) 15 to 30 years	c) 15 to 24 years	d) 15 to 45 years
174. Infant mortality in India is:		
a) 14/1000 b) 45/1000	c) 62/1000	d) 72/1000
175. Full form of CDRI is		
a) Central Development Research Institute	b) Child Development	
c) Central Drug Research Institute	d) Common Developm	ent Research Institute
176. The formula for exponential population growth is:		
a) $dt/dN = rN$ b) $dN/rN = dt$	c) $rN/dN = dt$	d) $dN/dt = rN$
177. MTP stands for		
a) Medical Termination of Pregnancy	b) Mental Trauma Pha	se
c) Menstrual Pain	d) None of the above	
178. IVF in which the early zygote with up toA blast	comere is transferred to the	ie Fallopian tube is calledB
	.) 4 22 D ZIET	1) A CA D 715
a) A-8; B-ZIFT b) A-16; B-ZIFT	c) A-32; B-ZIFT	d) A-64; B-ZIF
179. False statement about ZIFT is	h) Tymo of IVE	
a) Zygote in the Fallopian transfer	b) Type of IVF	no ugod
c) More than 8 blastomeres are used	d) Zygote or embryo a	re usea
180. In contraception, sperm motility decreases due to	a) In ion	d) Calian
a) Cu ion b) Fe ion 181. July 11 is :	c) Zn ion	d) Se ion
a) World Environment day	b) World Population d	av
c) World AIDS day	d) World Education da	_
of world files day	a, world Education da	y

182. What was the world human population in 2011?		
a) 6 billion b) 7 billion	c) 3 billion	d) 5 billion
183. "Saheli" contraceptive oral pill was developed at:		
a) Department of Biotechnology, New Delhi	b) CDRI, Lucknow	
c) NEERI, Nagpur	d) Department of Molecul	ar Biology, Hydrabad
184. STDs caused by viruses are		
I. AIDS		
II. Hepatitis-B		
III. Genital herpes		15.2
a) I, II and III b) I and III	c) II and III	d) I and II
185. Artificial insemination mean:		
a) Transfer of sperms of husband to a test tube cont	-	
b) Artificial introduction of sperms of a healthy done	-	
c) Introduction of sperms of a healthy donor directly	,	
d) Transfer of sperms of a healthy donor to a test tul	-	
186. Emergency contraceptives are effective if used within		
a) 72 hrs of coitus	b) 72 hrs of ovulation	
c) 72 hrs of menstruation	d) 72 hrs of implantation	
187. The number of organisms in population are added by	=	D D (1 (4) 1 (D)
a) Immigration b) Birth	c) Emigration	d) Both (A) and (B)
188. Certain characteristic demographic features of devel		Transfer of
a) High fertility, high density, rapidly rising mortalit		
b) High infant mortality rate, low fertility, uneven po		
c) High mortality, high density, uneven population g	•	
d) High fertility, low rapidly falling mortality rate, ra	ipia population growth and	a very young age
distribution		
189. India's population in June 2011 was a) 121 carore b) 115 carore	c) 110 carore	d) None of these
190. The Test-tube Baby Programme employs which one a) Intra uterine insemination (IUI)	b) Gamete intra fallopian	
c) Zygote intra fallopian transfer (ZIFT)	d) Intra cytoplasmic speri	` ,
191. Primary infertile patient is the person who;	u) mu a cytopiasime spen	in injection (icsi)
a) Never conceived	b) Could conceive	
c) Can't produce ova	d) None of the above	
192. IVF in which zygote withA then 8 blastomere is	•	ly it is called R
a) A-more; B-IUT b) A-less; B-IUT	c) A-less; B-ZIFT	d) A-less; B-ICSI
193. Indicators of the improved reproductive health of th		uj ii iess, b iesi
a) Better detection and cure of STD	ic society are	
b) Improved medical facilities		
c) Decreased maternal and infant morality rates		
d) All of the above		
194. MMR (Measles, Mumps, Rubella) vaccine is given at		
a) 15-25 months b) 15-18 months	c) 2 years	d) 5 years
195. Amniocentesis is the detection of	ej 2 yeurs	a) o years
a) Chromosomal pattern by taking amniotic fluid		
b) Chorionic fluid from developing embryo		
c) Chromosomal pattern after child birth		
d) Chromosomal pattern before fertilisation		
196. Ovulation do not occur in lactational period because	of	
a) Inhibin b) Prolactin	c) Prostaglandin	d) Oxytocin
, -, -, -, -, -, -, -, -, -, -, -, -, -,	,	, - ,

197. Hepatitis-B and HIV spreads through

a) Sharing needless

b) Transfusion of blood

c) Infected mother to child

d) All of the above

198. Match the following figures with their respective identify

I. Tubectomy II. Vasectomy

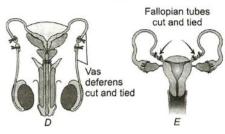
III. Implants IV. Condoms

V. Copper-T









a) A-IV; B-V; C-III; D-II; E-I

b) A-IV; B-IV; C-II; D-I; E-V

c) A-I; B-II; C-III; D-IV; E-V

- d) A-III; B-IV; C-V; D-I; E-II
- 199. Oral contraceptives are prescribed in females to check:
 - a) Ovulation

b) Fertilization

c) Implantation

d) Entry of sperms in vagina

NEET BIOLOGY

REPRODUCTIVE HEALTH

1)	d	2)	c	3)	a	4)	(1 105)	d	106)	a	107)	a	108)	c
5)	a	6)	a	7)	a	8)	(d 109)	a	110)	b	111)	a	112)	b
9)	c	10)	C	11)	b	12)	(: 113)	d	114)	c	115)	b	116)	b
13)	b	14)	C	15)	b	16)		ı (117)	a	118)	b	119)	d	120)	c
17)	d	18)	C	19)	a	20)	•	: 121)	b	122)	b	123)	c	124)	b
21)	b	22)	b	23)	b	24)	i	a 125)	a	126)	d	127)	b	128)	a
25)	c	26)	b	27)	d	28)	i	a 129)	a	130)	b	131)	b	132)	d
29)	a	30)	b	31)	a	32)	1	133)	d	134)	a	135)	b	136)	d
33)	b	34)	b	35)	c	36)	•	137)	a	138)	a	139)	d	140)	d
37)	b	38)	d	39)	C	40)	(d 141)	C	142)	d	143)	c	144)	b
41)	a	42)	c	43)	a	44)	•	145)	d	146)	b	147)	a	148)	d
45)	d	46)	b	47)	C	48)	(d 149)	C	150)	b	151)	d	152)	a
49)	c	50)	c	51)	d	52)	i	a 153)	d	154)	a	155)	c	156)	c
53)	d	54)	b	55)	c	56)	i	ı 157)	b	158)	b	159)	b	160)	d
57)	d	58)	b	59)	d	60)	(d 161)	b	162)	c	163)	d	164)	b
61)	a	62)	c	63)	b	64)	1	165)	b	166)	d	167)	c	168)	b
65)	b	66)	b	67)	c	68)	i	ı [169]	C	170)	c	171)	a	172)	c
69)	a	70)	d	71)	c	72)	(173)	C	174)	d	175)	c	176)	d
73)	b	74)	b	75)	a	76)	(177)	d	178)	a	179)	c	180)	a
77)	b	78)	b	79)	a	80)	1	181)	b	182)	b	183)	b	184)	a
81)	c	82)	d	83)	c	84)	(185)	b	186)	a	187)	d	188)	d
85)	b	86)	a	87)	a	88)	1	189)	a	190)	c	191)	a	192)	a
89)	a	90)	a	91)	c	92)	(193)	d	194)	b	195)	a	196)	b
93)	b	94)	d	95)	a	96)	(197)	d	198)	a	199)	a		
97)	c	98)	a	99)	c	100)	(:							
101)	c	102)	a	103)	a	104)	(i							

NEET BIOLOGY

REPRODUCTIVE HEALTH

: HINTS AND SOLUTIONS :

1 (d)

Myths are the false beliefs. They found in every religion. They can't give any help to reproductive health

2 **(c)**

Both (a) and (b).

Intra Uterine Devices (IUDs) for contraception

- (i) There devices are inserted by the doctors into the uterus through vagina.
- (ii) There are three types of IUDs

Non-medicated IUDs They increases the phagocytosis of the sperm within the uterus, $e.\,g.$, Lippes loop

Copper Releasing IUDs Along with phagocytosis of the sperms, the copper ions released, suppresses the sperm motility and the fertilizing capacity of the sperm. *e. g.*, Cu-T, Cu-7, multiload-375

Hormone Releasing IUDs They makes the uterus unsuitable for implantation and the cervix hostile to the sperms, *e. g.*, progestasert, LNG-20

3 **(a)**

Amniocentesis It is technique of drawing-amniotic fluid and testing it to find out the sex and disorders of the foetus. The amniotic fluid is usually taken at about the fourteenth or fifteenth week after conception.

Sonography (a technique involving high frequency sound waves to locate tissues of different densities within the body) is used to determine the location of the foetus and the placenta just prior to perform amniocentesis. Therefore, accidental damage to the foetus and placenta is prevented.

Amniotic fluid contains cell from the skin of the foetus and other sources. These cells can be used to determine the sex of the infant, to identify some abnormalities in the number of chromosomes and to detect certain biochemicals and enzymatic abnormalities.

If it is established that, if the child is likely to suffer from a serious increase congential detect, the mother should get the foetus aborted. However, these days, this technique is also being misused. Since, the sex of the foetus can be determined by this technique, normal female foetus is aborted. Therefore, this technique has been banned

Population growth rate is the annual average growth rate. It can be negative.

Birth rate replacement level can never be negative

4 (d)

Lactational amenorrhoea is the natural way to prevent the unwanted pregnancies

6 **(a**

Femidom term is used the female condoms

7 **(a**)

National Smallpox Eradication Programme. **Universal Immunisation Programme** WHO launched the programmes to immunise the children of the entire world against six diseases till 2000

- (i) Diphtheria(ii) Pertussis (wooping cough)(iii) Tetanus(iv) Polio
- 1. Tuberculosis (vii) Measles

National Programmes

These programmes were started by the government of India to erase the major communicable diseases

The major national programmes are

- (a) National Malaria Eradication Programme (NMEP)
- (b) National Cholera Control Programme (NCCP)
- (c) National Leprosy Control Programme (NLCP)
- (d) National Smallpox Eradication Programme (NSEP)
- (e) National Filaria Control Programme (NFCP)
- (f) Family Planning Programme (FPP)

(c

TB is caused by *Tuberculosis* bacteria. It is a non-sexual disease.

Malaria is caused by protozoan protest called *plasmodium vivax*. When female *Anopheles* mosquito bites then these parasites goes into the human body and causes malaria

10 **(c)**

Hormonal implants and oral contraceptives have the combination of oestrogen and progesterone hormones. Their mode of working is same but the site of implantation and the duration is different

11 **(b)**

ICCI - Intra Cytoplasmic Semen Injection

12 **(c)**

Lucknow, India

Research in Reproductive Health It should be encouraged and supported to find out the new methods in reproduction related areas. 'Saheli' a new oral contraceptive for the females was developed by scientists in Central Drug Research Institute (CDRI) in Lucknow

13 **(b)**

IUDs (Intra Uterine Devices) increases the phagocytosis of sperms.

Natural method of contraceptive are the natural ways to prevent fertilisation. These methods are

(i) Periodic Abstinence

Couple avoid coitus or intercourse from day 10 to 17 of the menstrual cycle when ovulation is expected to occur

- (ii) Coitus interruption or withdrawl method Withdrawl of penis from the vagina just before ejaculation so as to avoid insemination
- (iii) Lactational Amenorrhoea (Absence of menstruation) This method is based on the fact that ovulation and therefore the cycle don't occur during the period of intense following parturition. Therefore, as long as the mother breast feeds the child, chances of conception are almost nil

16 (a)

Surgical Method of Contraception In that method the cutting of vas deferens in male and Fallopian tubes in female takes place due to which the motility of gametes (ova and sperm) inhibited. Vasectomy male semen have all the constitutes (secretion of Cowber's glands, seminal vesicle and prostate gland) but don't have gametes (sperm)

17 (d)

According to the World Health Organisation (WHO), reproductive health means a total well being in all aspects of reproduction, *i.e.*, physical, emotional, behavioural and social. Therefore, a society with people having physically and functionally normal reproductive organs and normal emotional and behavioural interactions

among them in all sex-related aspects might be called reproductively healthy

18 **(c)**

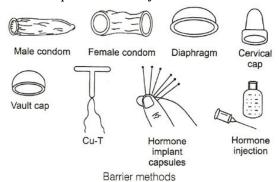
Lactational Amenorrhoea Method LAM (absence of menstruation) This method is effective only upto maximum period of six months after child birth

20 **(c)**

Barrier Methods

These methods prevent the contact of sperm and ovum with the help of barriers. *Such methods are* (i) **Condoms** are the barriers made of thin rubber/latex sheath used to cover the penis in the male or vagina and cervix in female. It prevents the deposition of the ejaculated semen into the vagina of the female.

- (ii) **Diaphragms, cervical cap and vaults are** the barriers made of rubber that are inserted into the female reproductive tract to cover the cervix during coitus.
- (iii) **Spermicidal creams, jellies and foams** are used along with these barriers to increase their contraceptive efficiency



24 **(a)**

Saheli. *India*

Research in Reproductive Health It should be encouraged and supported to find out the new methods in reproduction related areas. 'Saheli' a new oral contraceptive for the females was developed by scientists in Central Drug Research Institute (CDRI) in Lucknow

25 (c)

Infertility is the inability to produce viable offspring due to the defects in its female or male partner

26 **(b)**

Types of Oral Contraceptive Pills They contains either progesterone alone or a combination of progesterone and oestrogen.

Thus, oral contraceptive pills are of two types

- (i) **Mini Pills** They contains progestin only. Saheli contains a mosteroidal preparation called **centchroman**, which is taken once in a week after an initial intake of twice a week dose for 3 months. It has high contraceptive value with very little side effects.
- (ii) **Combined Pills** They are most commonly used oral contraceptive pills. They contains synthetic progesterone and oestrogen to check ovulation. Pill like **Mala D** and **Mala N** are commonly used combined contraceptive pills. They are taken daily

27 **(d)**

Ist, IInd and IIIrd.

Diseases or infections, which are transmitted through sexual intercourse with infected persons are collectively called Sexually Transmitted Diseases (STDs) or Venerable Diseases (VD) or Reproductive Tract Infections (RTI)

28 **(a)**

National Filaria Control Programme.

Universal Immunisation Programme WHO launched the programmes to immunise the children of the entire world against six diseases till 2000

- (i) Diphtheria(ii) Pertussis (wooping cough)(iii) Tetanus(iv) Polio
- 2. Tuberculosis (vii) Measles

National Programmes

These programmes were started by the government of India to erase the major communicable diseases

The major national programmes are

- (a) National Malaria Eradication Programme (NMEP)
- (b) National Cholera Control Programme (NCCP)
- (c) National Leprosy Control Programme (NLCP)
- (d) National Smallpox Eradication Programme (NSEP)
- (e) National Filaria Control Programme (NFCP)
- (f) Family Planning Programme (FPP)

29 **(a)**

The women who can't conceive but can give the suitable environment to foetus. In this case, ZIFT is used

30 **(b)**

In IVF, the fertilisation takes place outside the female body but in almost similar conditions as that inside the body

33 **(b)**

Gonorrhea is the common sexual transmitted disease in India

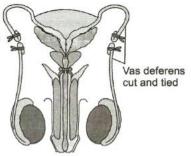
35 **(c)**

A-Vasectomy, B-Tubectomy, C-Vas deferens cut and tied, D-Fallopian tube cut and tied.

Surgical Method of Contraception (sterilization)
There are terminal and the permanant methods,
which blocks the transport of gametes by
preventing conception.

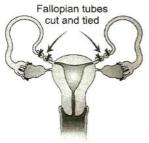
They are two types

Vasectomy In males a small portion of the vas deferens is removed or tied up through a small incision on the scrotum called vasectomy



Vasectomy

Tubectomy In females a small part of the Fallopian tube is removed or tied up through a small incision in the abdomen called tubectomy



Tubectomy

37 **(b)**

National Laprosy Control Programme.

Universal Immunisation Programme WHO launched the programmes to immunise the children of the entire world against six diseases till 2000

- (i) Diphtheria (ii) Pertussis (wooping cough) (iii) Tetanus (iv) Polio
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- (f) Family Planning Programme (FPP)

41 (a)

Correct statements are

- (i) Pills prevent ovulation
- (ii) Copper-T prevents implantation
- (iii) Vasectomy causes semen having no sperm

42 **(c)**

6, 10 and 14 weeks after birth.
National Immunization Schedules

Age	Vaccine	Optional Vaccines
Birth	BCG (<i>Bacillus</i>	6 weeks
	calmittte Guerin)	Haemophilus
6 weeks	Oral Polio	10 weeks
	Vaccine 1st Dose	influenza
	Hepatitis-B	Type B
	Vaccine 1st Dose	14 weeks
	DPT 1st Dose	
	Oral Polio	2 years
	Vaccine 2nd Dose	hepatitis-A
		vaccine
	Hepatitis-B	Two doses 6
	Vaccine 2nd Dose	months A
		part
10 weeks	DPT 2nd Dose	2 years
		typhoid
		vaccine other
	Oral Polio	1 year
	Vaccine 3rd Dose	chickenpox
14 weeks	DPT 3rd Dose	
	Oral Polio	
	Vaccine 4th Dose	
6-9	Oral Polio	
months	Vaccine 5th Dose	
	Hepatitis-B	
	Vaccine 3rd Dose	
9 months	Measles Vaccine	
15-18	MMR (Measles,	
months	Mumps, Rubella)	
	DPT 1st Booster	
	Dose	
	Oral Polio	
	Vaccine 6th Dose	
5 years	DPT 2nd Booster	
	Dose	
	Oral Polio	
10	Vaccine 7th Dose	
10 years	TT (Tetanus) 3rd	
	Booster Dose	

	Hepatitis-B	
	Vaccine	
	Booster Dose	
15-16	TT (Tetanus) 4th	
years	Booster Dose	

43 **(a)**

Contraceptive pills contains progesterone and oestrogen hormones. These hormones suppresses the FSH (Follicle Stimulating Hormone). FSH stimulates the ovulation

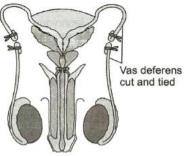
47 **(c)**

Surgical Method of Contraception (sterilization) There are terminal and the permanant methods,

which blocks the transport of gametes by preventing conception.

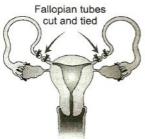
They are two types

Vasectomy In males a small portion of the vas deferens is removed or tied up through a small incision on the scrotum called vasectomy



Vasectomy

Tubectomy In females a small part of the Fallopian tube is removed or tied up through a small incision in the abdomen called tubectomy



Tubectomy

49 **(c)**

Spermicidal creams contains chemicals, which kills the sperms. If they are used along with the barrier contraceptive methods than it increases their effectibility

50 **(c)**

Universal Immunisation Programme WHO launched the programmes to immunise the children of the entire world against six diseases till 2000

(i) Diphtheria (ii) Pertussis (wooping cough)

- (iii) Tetanus (iv) Polio
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- (f) Family Planning Programme (FPP)

51 **(d)**

Lippes loop.

Intra Uterine Devices (IUDs) for contraception

- (i) There devices are inserted by the doctors into the uterus through vagina.
- (ii) There are three types of IUDs

Non-medicated IUDs They increases the phagocytosis of the sperm within the uterus, $e.\,g.$, Lippes loop

Copper Releasing IUDs Along with phagocytosis of the sperms, the copper ions released, suppresses the sperm motility and the fertilizing capacity of the sperm. *e. g.*, Cu-T, Cu-7, multiload-375

Hormone Releasing IUDs They makes the uterus unsuitable for implantation and the cervix hostile to the sperms, *e. g*, progestasert, LNG-20

53 **(d)**

Azospermia – No sperm movement

Asthenospermia – Less movement of sperm

Oligospermia - Very less amount of sperm

Polyspermia – Abundant amount of sperm

54 **(b)**

Mostly female barrier contraceptive like diaphragms, cervical caps, vaults are reusable

55 **(c)**

Generally, AIDS detection is done by ELISA (Enzyme Linked Immuno Sorbent Assay).
But sometimes the results of this technique may prove false. So, by combining it with PCR (Polymerase Chain Reaction), the realibility of the detection of AIDS increases

56 **(a)**

IUD (Intra Uterine Devices) New improved IUD are coming, which have more durability to avoid unwanted conceiving. Some of them has time

period from one year to five years. So in delaying pregnancy or spacing children, IUD is most ideal contraceptive

57 **(d)**

The term 'reproductive health' simply refers to healthy reproductive organs with normal functions. However, it has broader perspectives and includes emotional, physical and social aspects of reproduction also

58 **(b)**

A-Fallopian tube, B-Tubectomy

60 **(d)**

Number of the cells.

The zygote or the early embryo is transferred into Fallopian tube (ZIFT-Zygote Intra Fallopian Transfer). If embryo contains is more than 8 blastomere (cells) and it is transferred into uterus than, it is called IUT (Intra Uterine Transfer)

62 **(c)**

An ideal contraceptive should be user friendly, easily available, effective and reversible with least side-effects. It also, should not interface with the sexual drive, desire and sexual act of the user.

Contraceptive methods are grouped into the following categories

- (i) Natural/traditional methods
- (ii) Barrier methods
- (iii) Intra Uterine Devices (IUDs)
- (iv) Oral contraceptive
- (v) Injectables and implants
- (vi) Surgical methods

63 **(b)**

 $Intra\ Uterine\ Devices\ (IUDs)\ for\ contraception$

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unsuitable for implantation and the cervix hostile to the sperms, *e. g*, progestasert, LNG-20

64 **(b)**

In vivo **Fertilisation** In this technique, the fertilisation of the gametes takes place in the oviduct of the female rather than outside

65 **(b)**

A developing embryo is transplanted in the uterus of another female. A woman who substitutes or takes place of the real mother to nurse the embryo is called surrogate mother

67 **(c**)

Main causes for the population growth are

- (i) Decline in death rate
- (ii) Rapid decline in Mother Mortality Rate (MMR)
- (iii) Increase in the number of people in the reproductive age group
- (iv) Better medical facilities

69 **(a)**

True statements for IUDs are

- (i) They are inserted by medical experts like nurses, doctors
- (ii) They may be non-medicated IUDs like hormone Releasing IUDs, copper releasing IUDs (iii) They (IUDs) are inserted in the uterine cavity of the females

70 **(d)**

Common Symptoms Early symptoms of most of these diseases are itching, fluid discharge, swelling, slight pain, etc.

Consequences of Delayed Treatment If proper and timely treatment is not given. STDs may lead to complications such as Pelvic Inflammatory Diseases (PID), abortions, still birth, ectopic pregnancies, infertility or even cancer of the reproductive tract

71 **(c)**

Population growth rate is the annual average growth rate. It can be negative.

Birth rate replacement level can never be negative

72 **(c**

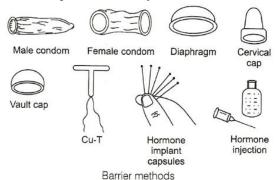
Penis in male or cervix and vagina in female.

Barrier Methods

These methods prevent the contact of sperm and ovum with the help of barriers. *Such methods are*

- (i) **Condoms** are the barriers made of thin rubber/latex sheath used to cover the penis in the male or vagina and cervix in female. It prevents the deposition of the ejaculated semen into the vagina of the female.
- (ii) **Diaphragms, cervical cap and vaults are** the barriers made of rubber that are inserted into the female reproductive tract to cover the cervix during coitus.

(iii) **Spermicidal creams, jellies and foams** are used along with these barriers to increase their contraceptive efficiency



75 **(a)**

Second trimester.

MTP is safe until Ist trimester (12 weeks) of the pregnancy. It becomes more risky after the Ist trimester period of pregnancy as the foetus becomes intimately associated with the maternal tissue

79 **(a)**

National Cholera Control Programme
Universal Immunisation Programme WHO
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- (e) National Filaria Control Programme (NFCP)
- (f) Family Planning Programme (FPP)

80 **(b)**

Hormonal Releasing IUD. is LNG-20. Hormonal releasing IUDs.

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81 **(c)**

Infection in the urinogenital tract, yellow discharge, fever, headache, feeling of illness are the common symptoms of gonorrhea. These symptoms are common in men and women

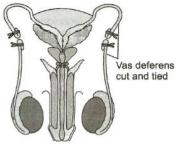
84 **(c)**

Vasectomy.

Surgical Method of Contraception (sterilization) There are terminal and the permanant methods, which blocks the transport of gametes by preventing conception.

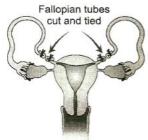
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Vasectomy

Tubectomy In females a small part of the Fallopian tube is removed or tied up through a small incision in the abdomen called tubectomy



Tubectomy

87 **(a)**

Vitamin-E is necessary for the maintenance and proper functioning of the reproductive organs. Hence, it is also called antifertility vitamin. All vitamins are organic compound

89 **(a)**

National Immunization Schedules

Age	Vaccine	Optional
D: d	DCC (D 'II	Vaccines
Birth	BCG (Bacillus	6 weeks
. 1	calmittte Guerin)	Haemophilus
6 weeks	Oral Polio	10 weeks
	Vaccine 1st Dose	influenza
	Hepatitis-B	Туре В
	Vaccine 1st Dose	14 weeks
	DPT 1st Dose	
	Oral Polio	2 years
	Vaccine 2nd Dose	hepatitis-A
		vaccine
	Hepatitis-B	Two doses 6
	Vaccine 2nd Dose	months A
		part
10 weeks	DPT 2nd Dose	2 years
		typhoid
		vaccine other
	Oral Polio	1 year
	Vaccine 3rd Dose	chickenpox
		1
14 weeks	DPT 3rd Dose	
	Oral Polio	
	Vaccine 4th Dose	
6-9	Oral Polio	
months	Vaccine 5th Dose	
	Hepatitis-B	
	Vaccine 3rd Dose	
9 months	Measles Vaccine	
15-18	MMR (Measles,	
months	Mumps, Rubella)	
	DPT 1st Booster	
	Dose	
	Oral Polio	
	Vaccine 6th Dose	
5 years	DPT 2nd Booster	
5 years	Dose	
	Oral Polio	
	Vaccine 7th Dose	
10 years	TT (Tetanus) 3rd	
10 years	Booster Dose	
	Hepatitis-B Vaccine	
15 17	Booster Dose	
15-16	TT (Tetanus) 4th	
years	Booster Dose	

90 **(a)**

Reproductive and child healthcare

India is amongst the first countries in the world to initiate action plans and programmes at a national level to attain total reproductive health as a social goal. These programme called 'family planning'

were initiated in 1951 and were periodically assessed over the past decades. Improved programmes covering wider reproduction related areas are currently in operation under the popular name 'Reproductive and Child Healthcare (RCH) programmes' creating awareness among people about various reproduction related aspects and providing facilities and support for building up a reproductively healthy society are the major tasks under these programmes

92 **(c)**

Oral contraceptives contains two hormones, progesterone and oestrogen.

Oral contraceptive pills works in four ways

- (i) Inhibition of ovulation
- (ii) Inhibition of motility and the secretory activities of the oviducts (Fallopian tubes).
- (iii) Changes in the cervical mucous, imparing its ability to allow passage and transport of the sperms.
- (iv) Alteration in the uterine endometrium to make it unsuitable for implantation
- 93 **(b)**

A-Hormonal releasing IUD, B-sperm

- 95 **(a)**
 - (i) Collected gamete are made to form zygote in laboratory, *in vitro* fertilisation (IVF)
 - (ii) Zygote or early embryo with up to 8 blastomeres is transferred into the oviduct (ZIFT)
 - (iii) Zygote with more than 8 blastomeres is transferred into uterus (IUT)
 - (iv) Fusion of gamete within the body of female (*In vivo* fertilisation)
 - (v) Transfer of ovum from the donor to the oviduct of the recipient (GIFT)
 - (vi) Sperms are injected into the ovum *in vitro* (ICSI)
- 96 **(c)**

Bacterial STDs are

Diseases Pathogens

Syphilis – *Treponema pallidum*Gonorrhea – *Neisseria gonorrhea*Chancroid – *Haemophilus ducrey*

97 **(c)**

Female do not produce sperms

98 **(a)**

IVF - In vitro fertilisation

IUI - Intra Uterine Insemination

ICSI - Intra Cytoplasmic Sperm Injection

ZIFT – Zygote Intra Fallopian Transfer

99 **(c)**

Oral administration of the small doses of either progestogens or progestogen oestrogen combinations is one of the contraceptive method used by the females. They are used in the form of tablets and hence, are popularly called the pills. Pills have to be taken daily for a period of 21 days, starting preferably within the first five days of menstrual cycle.

After a gap of 7 days (during which menstruation occurs) it has to be repeated in the same pattern till the female desires to prevent conception. They inhibit ovulation and implantation as well as alter the quality of cervical mucous to prevent/retard entry of sperms. Pills are very effective with lesser side effects and are well accepted by the females. Saheli the new oral contraceptive for the females contains a non-steroidal preparation. It is a once a week pill with very few side effects and high contraceptive value

100 (c)

Population is defined as the total number of individuals of a species present in a particular area at a given time. A species has many populations living in different regions.

The scientific study of human population is called demography

102 **(a)**

Tetanus is caused by *Clostridium tetani*. It is an anaerobic bacteria. It invades the nervous tissue. National Immunization Schedules

Age	Vaccine	Optional Vaccines
Birth	BCG (<i>Bacillus</i>	6 weeks
	calmittte Guerin)	Haemophilus
6 weeks	Oral Polio	10 weeks
	Vaccine 1st Dose	influenza
	Hepatitis-B	Type B
	Vaccine 1st Dose	14 weeks
	DPT 1st Dose	
	Oral Polio	2 years
	Vaccine 2nd Dose	hepatitis-A
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	Oral Polio	1 year
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11 Weeks	Oral Polio	
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months	Vaccine 5th Dose	
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9 months	Measles Vaccine	
15-18	MMR (Measles,	
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	Hepatitis-B	
	Vaccine	
	Booster Dose	
15-16	TT (Tetanus) 4th	
years	Booster Dose	

103 (a)

Oral contraceptive pills increases the risk of intravascular clotting. Therefore, they are not recommended for women with a history of disorders of blood clotting. Administration of oral contraceptives and IUD are effective in 72 hours

104 **(d)**

Suppresses sperm motility.

Intra Uterine Devices (IUDs) for contraception

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Hormone Releasing IUDs They makes the uterus unsuitable for implantation and the cervix hostile to the sperms, *e. g*, progestasert, LNG-20

105 **(d)**

Except HIV infection. Hepatitis-B and genital herpes all other STDs are completely curable if detected early and treated properly

106 (a)

A-Ovulation; B-Mucous

107 **(a)**

This method is only moderately effective because the time of ejaculation is very pleasant, specially for males. Some sperms may pass into the vagina before ejaculation.

Natural method of contraceptive are the natural ways to prevent fertilisation. These methods are

(i) Periodic Abstinence

Couple avoid coitus or intercourse from day 10 to 17 of the menstrual cycle when ovulation is expected to occur

- (ii) Coitus interruption or withdrawl method Withdrawl of penis from the vagina just before ejaculation so as to avoid insemination
- (iii) Lactational Amenorrhoea (Absence of menstruation) This method is based on the fact that ovulation and therefore the cycle don't occur during the period of intense following parturition. Therefore, as long as the mother breast feeds the child, chances of conception are almost nil

108 (c)

NACO (National AIDS Control Organisation) was established in 1992 in India

112 **(b)**

The countries with largest population are six.

Country - Human population

China -1341000000 India - 1210000000 USA - 311075000

Indonasia - 237556363

Brazil - 190732694

116 **(b)**

India is amongst the first countries in the world to initiate action plans and programmes at a national level to attain total reproductive health as a social goal. These programme called 'family planning' were initiated in 1951 and were periodically assessed over the past decades.

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117 **(a)**

Withdrawl of penis before ejaculation. Also

This method is only moderately effective because the time of ejaculation is very pleasant, specially for males. Some sperms may pass into the vagina before ejaculation

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118 **(b)**

Significance of MTP

(i) It helps in getting rid of unwanted pregnancies | 127 **(b)** and such pregnancies, which may be harmful or even fatal either to the mother or to the foetus or hoth

(ii) MTP plays a significant role in decreasing the human population

Drawback of MTP

- (i) It is being misused to abort even the normal female foetuses
- (ii) Majority of MTPs are performed illegally by unqualified quacks which may be fatal
- (iii) It has raised many emotional, ethical, religious and social issues

119 (d)

Intra Uterine Devices (IUDs) for contraception

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- (ii) *There are three types of IUDs*

Non-medicated IUDs They increases the phagocytosis of the sperm within the uterus, e.g., Lippes loop

Copper Releasing IUDs Along with phagocytosis of the sperms, the copper ions released, suppresses the sperm motility and the fertilizing capacity of the sperm. e. g., Cu-T, Cu-7, multiload-375

Hormone Releasing IUDs They makes the uterus unsuitable for implantation and the cervix hostile to the sperms, e. g, progestasert, LNG-20

122 **(b)**

There are little or no side effects of tubectomy and vasectomy.

The purpose of tubectomy and vasectomy is to block the passage of ova and sperm respectively

123 **(c)**

Simple precautions that can prevent STDs are

- (i) Avoid sex with unknown multiple partners
- (ii) Always use condoms during coitus
- (iii) In case of Doubt go to the qualified doctors

124 **(b)**

MTP was legalized in India in 1971

125 (a)

Six matchstick-sized capsules containing steroids are inserted under the skin of the inner arm above the elbow. These steroid capsules slowly releases the synthetic progesterone for about five years



Hormone implant capsules

Rapid increase in population.

Rapid growth is called exponential growth. In 1700 AD human population was about 0.6 billion. At the beginning of the twentieth century, it increased to 1.6 billion, and by the end of the century, the human population reached 6.1 billion. This rapid increase in population over a relatively short period is called **population** explosion.

In the 150 years from 1700 AD human population doubled from 0.6 billion to 1.2 billion. In contrast, it increased five time during the next 150 years. In 2011 it was 7 billion

129 (a)

IUD

- (i) Increases phagocytosis of sperms
- (ii) Releases ions that suppresses the sperm motility and fertilizing capacity of sperms
- (iii) Makes uterus unsuitable for implantation Intra Uterine Devices (IUDs) for contraception
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132 **(d)**

ART (Assisted Reproductive Technologies) are the applications of reproductive technologies to solve infertility problems. *There are*

- (i) Test tube baby/*In vitro* fertilisation (IVF)
- (ii) Artificial Insemination Technologies (AIT)
- (iii) Gamete Intra Fallopian Transfer (GIFT)
- (iv) Intra Cytoplasmic Sperm Injection (ICSI)

134 (a)

Tremendous increase in the size and growth of the population is called population explosion.

Human World Population

Year	Population
1700 AD	0.6 billion
1850	1 billion
1930	2 billion
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Population of India 1901-2011

Year	Population
1901	238, 396, 327
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1991	843, 930, 861
2001	1,027, 015, 247
2011	1,210, 193, 422

135 **(b)**

Ovulation is expected to occur at the 12^{th} - 14^{th} day of the menstrual cycle.

Probable ova releasing day is 12-14 day of menstrual phase, and sperm can live for 2-3 days in female reproductive system. So, 10-17 days are the most probable days for fertilisation.

Draw backs of periodic abstinence The effectiveness of this method is limited because only a few women have regular menstrual cycle and the actual time of ovulation can not be

produced as the ovulation in humans occurs about 14 days before the onset of the next menstruation

137 **(a)**

Polio and hepatitis, both are dreadful diseases. They are caused by the virus. Polio and hepatitis, both diseases are non-communicable.

National Immunization Schedules

	munization Schedule	I
Age	Vaccine	Optional
		Vaccines
Birth	BCG (<i>Bacillus</i>	6 weeks
	calmittte Guerin)	Haemophilus
6 weeks	Oral Polio	10 weeks
	Vaccine 1st Dose	influenza
	Hepatitis-B	Туре В
	Vaccine 1st Dose	14 weeks
	DPT 1st Dose	
	Oral Polio	2 years
	Vaccine 2nd Dose	hepatitis-A
		vaccine
	Hepatitis-B	Two doses 6
	Vaccine 2nd Dose	months A
		part
10 weeks	DPT 2nd Dose	2 years
		typhoid
		vaccine other
	Oral Polio	1 year
	Vaccine 3rd Dose	chickenpox
		•
14 weeks	DPT 3rd Dose	
	Oral Polio	
	Vaccine 4th Dose	
6-9	Oral Polio	
months	Vaccine 5th Dose	
	Hepatitis-B	
	Vaccine 3rd Dose	
9 months	Measles Vaccine	
15-18	MMR (Measles,	
months	Mumps, Rubella)	
	DPT 1st Booster	
	Dose	
	Oral Polio	
	Vaccine 6th Dose	
5 years	DPT 2nd Booster	
	Dose	
	Oral Polio	
	Vaccine 7th Dose	
10 years	TT (Tetanus) 3rd	
5 5 5 5 5 5	Booster Dose	
	Hepatitis-B	
	Vaccine	
	Booster Dose	
15-16	TT (Tetanus) 4th	
years	Booster Dose	
, , , , , , ,		1

138 (a)

With 1.7% of the growth rate. India's population could double in 33 years. Such an alarming growth rate could lead to an absolute scarcity of even the basic requirement. Therefore, the government was forced to take up serious measures to check the population growth. The most important step to overcome this problem is to motivate smaller families by using various contraceptive methods. You might have seen advertisements in the media as well as posters/bills, etc., showing a happy couple with two children with a slogan *Hum Do Humare Do* (we two, our two).

Many couples, mostly the young, urban, working ones have even adopted 'one child norm'. Statutory raising of marriageable age of the female to 18 years and that of males to 21 years and incentives given to couples with small families are two of the other measures taken to tackle this problem

139 **(d)**

In IVF (In vitro fertilisation) the technique used are

ZIFT - Zygote Intra Fallopian Transfer

IUT - Intra Uterine Transfer

GIFT - Gamete Intra Fallopian Transfer

ICSI - Intra Cytoplasmic Sperm Injection

AI - Artificial Insemination

IUI - Intra Uterine Insemination

143 **(c)**

Diseases or infections, which are transmitted through sexual intercourse with infected persons are collectively called Sexually Transmitted Diseases (STDs) or Venerable Diseases (VD) or Reproductive Tract Infections (RTI)

144 **(b)**

Medical Termination of Pregnancy It is the intentional of voluntary termination of pregnancy before the full term. It is also called induced abortion.

About 45 to 50 million MTP are performed all over the world which accounts for 1/5 th of the total number of conceiving pregnancy. MTP was legalized by Government of India in 1971. MTP is to get rid of unwanted pregnancy due to the failure of contraceptive, or rapes, and when continued pregnancy leads to harmful or fatal consequences for mother or foetus or both. MTP is considered safe during the first trimester of pregnancy

145 (d)

Reason for high population growth are

- (i) Decline death rate
- (ii) Decline Maternal Mortality Rate (MMR)
- (iii) Decline infant mortality rate

These all factors are influenced by better medical services. According to 2001 census report, the population growth rate was about 1.7%. India's population got doubled in 33 years

147 (a)

350 billion.

Tremendous increase in the size and growth of the population is called population explosion.

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148 (d)

MTP is used to get rid of unwanted pregnancy due to

- (i) Genetic abnormality
- (ii) Failure of contraceptive method
- (iii) rapes

150 **(b)**

Avoid sex in ovulatory phase.

Probable ova releasing day is 12-14 day of menstrual phase, and sperm can live for 2-3 days in female reproductive system. So, 10-17 days are the most probable days for fertilisation.

Draw backs of periodic abstinence The effectiveness of this method is limited because

only a few women have regular menstrual cycle and the actual time of ovulation can not be produced as the ovulation in humans occurs about 14 days before the onset of the next menstruation

153 (d)

Swelling, itching, fluid discharge, slight pain **Common Symptoms** Early symptoms of most of these diseases are itching, fluid discharge, swelling, slight pain, etc.

Consequences of Delayed Treatment If proper and timely treatment is not given. STDs may lead to complications such as Pelvic Inflammatory Diseases (PID), abortions, still birth, ectopic pregnancies, infertility or even cancer of the reproductive tract

154 (a)

MTP is safe until Ist trimester (12 weeks) of the pregnancy. It becomes more risky after the Ist trimester period of pregnancy as the foetus becomes intimately associated with the maternal tissue

156 (c)

Because as we can see in diagram III and IV there is complete blockage, so there is no passage for sperm to go to ova for fertilisation

157 **(b)**

A-2001, B-1.5%, C-33 years

158 **(b)**

A-Vas deferens, B-Vasectomy

159 **(b)**

Probable ova releasing day is 12-14 day of menstrual phase, and sperm can live for 2-3 days in female reproductive system. So, 10-17 days are the most probable days for fertilisation.

Draw backs of periodic abstinence The effectiveness of this method is limited because only a few women have regular menstrual cycle and the actual time of ovulation can not be produced as the ovulation in humans occurs about 14 days before the onset of the next menstruation

161 **(b)**

Natural method of contraceptive are the natural ways to prevent fertilisation. These methods are

(i) Periodic Abstinence

Couple avoid coitus or intercourse from day 10 to 17 of the menstrual cycle when ovulation is expected to occur

(ii) Coitus interruption or withdrawl method

Withdrawl of penis from the vagina just before ejaculation so as to avoid insemination

(iii) Lactational Amenorrhoea (Absence of menstruation) This method is based on the fact that ovulation and therefore the cycle don't occur during the period of intense following parturition. Therefore, as long as the mother breast feeds the child, chances of conception are almost nil

162 (c)

Hormonal releasing IUDs.

Intra Uterine Devices (IUDs) for contraception

- (i) There devices are inserted by the doctors into the uterus through vagina.
- (ii) There are three types of IUDs

Non-medicated IUDs They increases the phagocytosis of the sperm within the uterus, *e. g.*, Lippes loop

Copper Releasing IUDs Along with phagocytosis of the sperms, the copper ions released, suppresses the sperm motility and the fertilizing capacity of the sperm. *e. g.*, Cu-T, Cu-7, multiload-375 **Hormone Releasing IUDs** They makes the uterus unsuitable for implantation and the cervix hostile to the sperms, *e. g*, progestasert, LNG-20

163 (d)

Oral contraceptive pills increases the risk of intra vascular clotting. Therefore, they are not recommended for women with a history of disorders of blood clotting, careful blood vessel damage, hypertension, liver malfunction, heart disease or cancer of the breast or reproductive system

164 **(b)**

Oral Contraceptive Pills (oral pills) They are used in the form of tablets therefore, they are called 'pills'. Pills have to be taken daily for 21 days starting within the first five days of menstrual cycle. After a gap of 7 days, it has to be repeated. They inhibit ovulation and implantation. Pills are very effective with lesser side effects

165 **(b)**

Determine any hereditary disease of the embryo. **Amniocentesis** It is technique of drawing-amniotic fluid and testing it to find out the sex and disorders of the foetus. The amniotic fluid is usually taken at about the fourteenth or fifteenth week after conception.

Sonography (a technique involving high frequency sound waves to locate tissues of different densities within the body) is used to determine the location of the foetus and the placenta just prior to perform amniocentesis. Therefore, accidental damage to the foetus and placenta is prevented.

Amniotic fluid contains cell from the skin of the foetus and other sources. These cells can be used to determine the sex of the infant, to identify some abnormalities in the number of chromosomes and to detect certain biochemicals and enzymatic abnormalities.

If it is established that, if the child is likely to suffer from a serious increase congential detect, the mother should get the foetus aborted. However, these days, this technique is also being misused. Since, the sex of the foetus can be determined by this technique, normal female foetus is aborted. Therefore, this technique has been banned

Population growth rate is the annual average growth rate. It can be negative.

Birth rate replacement level can never be negative

166 (d)

Secondary in fertility indicates the previous pregnancy but failure to conceive subsequently

167 **(c)**

Zygote is transferred to the Fallopian tube. **ZIFT** (Zygote Intra Fallopian Transfer) In ZIFT, the embryo upto 8 celled stage is transferred to Fallopian tube. Rest of the development takes place as that of the natural zygote in the uterus

- (i) Collected gamete are made to form zygote in laboratory, *in vitro* fertilisation (IVF)
- (ii) Zygote or early embryo with up to 8 blastomeres is transferred into the oviduct (ZIFT)
- (iii) Zygote with more than 8 blastomeres is transferred into uterus (IUT)
- (iv) Fusion of gamete within the body of female (*In vivo* fertilisation)
- (v) Transfer of ovum from the donor to the oviduct of the recipient (GIFT)
- (vi) Sperms are injected into the ovum *in vitro* (ICSI)

168 **(b)**

Misuse of Amniocentesis It is being used to kill the normal female foetus. It is legally banned for the determination of sex to avoid female foeticide

169 (c)

World AIDS day – 1st December World earth day – 22th April World population day – 11th July

170 (c)

Suppressing the mortality of sperm.

Intra Uterine Devices (IUDs) for contraception

- (i) There devices are inserted by the doctors into the uterus through vagina.
- (ii) There are three types of IUDs

Non-medicated IUDs They increases the phagocytosis of the sperm within the uterus, $e.\,g.$, Lippes loop

Copper Releasing IUDs Along with phagocytosis of the sperms, the copper ions released, suppresses the sperm motility and the fertilizing capacity of the sperm. *e. g.*, Cu-T, Cu-7, multiload-375 Hormone Releasing IUDs They makes the uterus unsuitable for implantation and the cervix hostile

171 **(a)**

'Hum do Humare Do' slogan encourages family planning.

to the sperms, e. g, progestasert, LNG-20

With 1.7% of the growth rate. India's population could double in 33 years. Such an alarming growth rate could lead to an absolute scarcity of even the basic requirement. Therefore, the government was forced to take up serious measures to check the population growth. The most important step to overcome this problem is to motivate smaller families by using various contraceptive methods. You might have seen advertisements in the media as well as posters/bills, etc., showing a happy couple with two children with a slogan *Hum Do Humare Do* (we two, our two).

Many couples, mostly the young, urban, working ones have even adopted 'one child norm'. Statutory raising of marriageable age of the female to 18 years and that of males to 21 years and incentives given to couples with small families are two of the other measures taken to tackle this problem

173 (c)

Incidents of STDs are very high in the population 15 to 24 years of age group

175 (c)

Research in Reproductive Health It should be encouraged and supported to find out the new methods in reproduction related areas. 'Saheli' a new oral contraceptive for the females was developed by scientists in Central Drug Research Institute (CDRI) in Lucknow

177 (d)

Induced abortion and intentional abortion, both the terms are used commonly for MTP (Medical Termination of Pregnancy)

178 (a)

ZIFT (Zygote Intra Fallopian Transfer) In ZIFT, the embryo upto 8 celled stage is transferred to Fallopian tube. Rest of the development takes place as that of the natural zygote in the uterus

179 (c)

In ZIFT, the zygote or embryo upto 8 cells/blastomeres are transferred to the Fallopian tube

180 (a)

Sperm motility decreases due to Cu ion. Intra Uterine Devices (IUDs) for contraception

- (i) There devices are inserted by the doctors into the uterus through vagina.
- (ii) *There are three types of IUDs*

Non-medicated IUDs They increases the phagocytosis of the sperm within the uterus, e.g., Lippes loop

Copper Releasing IUDs Along with phagocytosis of the sperms, the copper ions released, suppresses the sperm motility and the fertilizing capacity of the sperm. e. g., Cu-T, Cu-7, multiload-375 **Hormone Releasing IUDs** They makes the uterus unsuitable for implantation and the cervix hostile

to the sperms, e. g, progestasert, LNG-20

182 **(b)**

Rapid growth is called exponential growth. In 1700 AD human population was about 0.6 billion. At the beginning of the twentieth century, it increased to 1.6 billion, and by the end of the century, the human population reached 6.1 billion. This rapid increase in population over a relatively short period is called **population** explosion.

In the 150 years from 1700 AD human population doubled from 0.6 billion to 1.2 billion. In contrast, it increased five time during the next 150 years. In 193 (d) 2011 it was 7 billion

184 (a)

Viral STDs are

Diseases Pathogens

AIDS - HIV (Human Immuno deficiency

Virus)

Hepatitis-B - HBV (Hepatitis-B Virus) Genital herpes - Herpes simplex virus

Genital worts - HPV (Human Papilloma Virus)

First three are incurable

189 (a)

121 crore.

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191 (a)

Types of infertilities

Primary infertility It denotes those patients who have never conceived pregnancy **Secondary infertility** It indicates previous pregnancy but failure to conceive subsequently

192 (a)

The zygote or the early embryo is transferred into Fallopian tube (ZIFT-Zygote Intra Fallopian Transfer). If embryo contains is more than 8 blastomere (cells) and it is transferred into uterus than, it is called IUT (Intra Uterine Transfer)

Medical facilities. Better awareness about sexrelated problems, prenatal care of the mother, medically assisted delivers, postnatal care of the mother and infant, decrease maternal and infant morality, small families, better detection and cure of Sexually Transmitted Diseases (STDs), increased medical facilities for sex-related problems, etc., indicates improved reproductive health of the society

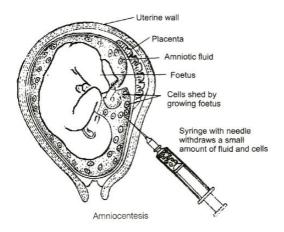
194 **(b)**

15-18 months.
National Immunization Schedules

Age	Vaccine	Optional
D' d	DCC (D "	Vaccines
Birth	BCG (Bacillus	6 weeks
	calmittte Guerin)	Haemophilus
6 weeks	Oral Polio	10 weeks
	Vaccine 1st Dose	influenza
	Hepatitis-B	Type B
	Vaccine 1st Dose	14 weeks
	DPT 1st Dose	
	Oral Polio	2 years
	Vaccine 2nd Dose	hepatitis-A
		vaccine
	Hepatitis-B	Two doses 6
	Vaccine 2nd Dose	months A
		part
10 weeks	DPT 2nd Dose	2 years
		typhoid
		vaccine other
	Oral Polio	1 year
	Vaccine 3rd Dose	chickenpox
		1
14 weeks	DPT 3rd Dose	
	Oral Polio	
	Vaccine 4th Dose	
6-9	Oral Polio	
months	Vaccine 5th Dose	
1110110110	Hepatitis-B	
	Vaccine 3rd Dose	
9 months	Measles Vaccine	
15-18	MMR (Measles,	
months	Mumps, Rubella)	
months	DPT 1st Booster	
	Dose	
	Oral Polio	
	Vaccine 6th Dose	
5 voors	DPT 2nd Booster	
5 years	Dose	
	Oral Polio	
	Vaccine 7th Dose	
10 veers		
10 years	TT (Tetanus) 3rd Booster Dose	
	Hepatitis-B Vaccine	
	Booster Dose	
15 16	TT (Totanua) 141-	
15-16 years	TT (Tetanus) 4th Booster Dose	

195 (a)

Procedure Amniotic fluid contains cells from the skin



of the foetus and other sources. These cells can be used to determine the sex of the infant, to identify abnormalities in the number of chromosomes and to detect certain biochemicals and enzymatic abnormalities. If it is established that the child is likely to suffer from a serious incurable congenital defect, the mother should get the foetus aborted. Amniocentesis is the detection of the chromosomal pattern of developing foetus by taking the amniotic fluid

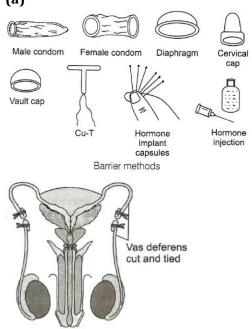
196 **(b)**

In lactating mother, there is the release and the production of milk secreting hormone. These hormones suppresses the release of Follicle Stimulating Hormone (FSH), so during intense lactation there is no ovulation hence, no pregnancy

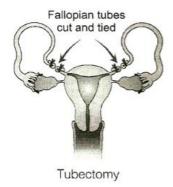
197 **(d)**

Mode of Infection (MOI) of AIDS and hepatitis are same and both are also incurable also

198 (a)



Vasectomy



A-Condoms, B-Copper-T, C-Implants, D-Vasectomy, E-Tubectomy