REPRODUCTIVE HEALTH

BIOLOGY

Single Correct Answer Type

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.		phagocytosis of the speri				
	a) Non-medicated IUD		b) Copper releasing IU	b) Copper releasing IUD		
	c) Both (a) and (b)		d) Hormone releasing	IUD		
3.	The permissible use of the technique amniocentesis is for					
	a) Detecting any genetic	abnormality		○		
	b) Detecting sex of the u	nborn foetus				
	c) Artificial insemination	1				
	d) Transfer for embryo i	nto the uterus of a surrog	ate mother			
4.	Find out the natural conf	traception methods				
	I. Implantation					
	II. Lactational (amenorrl	noea)	A. V.Y			
	III. Condoms	A				
	IV. Vasectomy					
	V. Tubectomy	C				
	VI. Sterilisation	b) III and IV	a) Wand W	4) O-1 II		
_	a) I and II	b) III and IV	c) V and VI	d) Only II		
5.	"Theory of four humors"		-) Al l	D DL 4		
_	a) Theophrastus	b) Aristotle	c) Alexander	d) Pluto		
6.	Female condoms are call	led	1) [1 1			
	a) Femidom		b) Female condom			
_	c) Contraceptive condon	n	d) None of these			
7.	NSEP stands for					
	a) National Smallpox Era	_	b) National Sickness Eradication Programme			
	c) National Syphilis Erac	_	d) None of the above			
8.	Study of population tren					
	a) Kalography		c) Biography	d) Demograghy		
9.	Find out sexually transmitted diseases among the given below					
	I. AIDS II. Syphi					
	III. Gonorrhea IV. Mala	ria				
	V. Hepatitis-B VI. TB	1-) VI I II 4 III	.) I II II IV	1) I II III II I I I I I I I I I I I I I		
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 sit	es of implantation	b) They differ in their	duration of action		
	c) Both (a) and (b)		d) None of the above	d) None of the above		
11.	ICSI stands for					
	a) Inter Cytoplasmic Sen	•	b) Intra Cytoplasmic Semen Injection			
	c) Inter Cytoplasmic Sen	nen Injection	d) In Cytoplasmic Sem	d) In Cytoplasmic Semen Injection		
12.	CDRI is situated in					
	a) Delhi	b) Kanpur	c) Lucknow	d) Tamil Nadu		

13.	Find out the right aspects of lactational amenorrhoea					
	I. Ovulation do not occur during the lactational period					
	II. Chances of the failure of contraception are almost nil upto six months following 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			
11			u) All of tilese			
14.	'Population explosion' being witnessed is mainly due		J J			
	a) Better job facilities	b) Increase in agricultura	ii production			
4=	c) Better health care	d) None of these				
15.	Maximum growth rate occurs in:		1) 0			
	a) Lag phase b) Exponential phase	c) Stationary phase	d) Senescent phase			
16.	What is the purpose of surgical method of contracep		A			
	a) Prevent gamete motility	b) Prevent gamete forma				
	c) Gametogenesis promotion	d) Facilitate implantation	1			
17.	Choose the WHO's statement about reproductive he		O			
	I. Healthy reproductive organs with normal function					
	II. Total well being of physical, emotional, behaviour	al and social aspects.				
	III. Free of all STD (Sexually Transmitted Disease)	a) II and III	d) Only II			
10	a) I and II b) I and III Lactational amenorrhora is	c) II and III	a) Only II			
10.						
	a) Absence of menses in adult age					
	b) Absence of menses in elderly age					
	c) Absence of menses during lactation	A \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\				
10	d) No menses during pregnancy					
19.	Most thickly populated country is:	O H C A	J) I . J' .			
20	a) Bangladesh b) Australia	c) U.S.A	d) India			
20.	What is the use of condoms?	h) I.,	: <u>.</u>			
	a) Decreases sperm motility	b) Increases sperm motil	•			
24	c) Barrier to prevent fusion of sperm and ova	d) Increases phagocytosis	S			
21.	Amniocentesis is a technique to:	h) Data at alauruu a aanu al a				
	a) Estimate essential amino acids in the body	b) Detect chromosomal a				
22	c) Reverse sex of the foetus	d) Correct genetic disord	ers of the foetus			
22.	Test tube baby is a technique where:	n implanted				
	a) Zygote is taken from the oviduct cultured and the	n impianted				
	b) Ovum is taken out, then fertilized and implanted	1				
	c) Sperm and ovum are fused and zygote grown in a	test tube				
22	d) None of the above	diri C				
23.	In a population, the condition at which the rate of ad	idition of new members is i	more than the rate of			
	individuals lost indicates:					
	a) Zero population growth	b) Exponential growth				
A. T.	c) Declining growth	d) None of these				
24.	Which oral contraceptive is developed by CDRI?		D.M. C.1			
2	a) Saheli b) Mala-D	c) Both (a) and (b)	d) None of these			
25.	3		C 1 .			
	I. Infertility is the inability to produce viable offsprin	igs due to the defects in the	e female partner			
	II. Complete lactation helps in contraception III. Spreading awareness can help to create a reprod	uctivaly healthy acciety				
	a) II only b) I, II and III	c) II and III	d) I and III			
26	What is true about 'Saheli'?	o, 11 and 111	a) 1 unu m			
2 0.	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

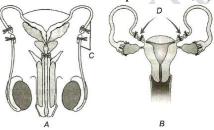
c) Diaphragms

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 Lyme Control Programme
- b) National Leprosy Control Programme
- c) National Lesion Control Programme d) None of the above

38.	The main factor of popula	tion growth in India is:		
	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 mechanical barrier used i	in birth control:	
	a) Loop	b) Copper-T	c) Diaphragm	d) Dalcon shield
40.	Copper-T prevents:			
	a) Ovulation	b) Fertilization of egg	c) Implantation	d) Both (B) and (C)
41.	Find out the correct states	,		
	I. Pills prevents ovulation	of contraception technique	e	
	II. Copper-T prevents imp	* *		
	III. Vasectomy produces s	emen containing no sperm	l	
	a) I and II	b) II and III	c) I and III	d) I, II and III
42.	Ist, 2nd, 3rd dose of DPT i	s given by		
	I. 6 weeks after birth			A Y
	II. 10 weeks after birth			41
	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	
15.	a) FSH	b) Inhibit	c) Progesterone	d) Testosterone
44.	Growth curve is normally	•	c) i rogesterone	uj restosterone
1 1.	a) J-shaped	b) V-shaped	c) S-shaped	d) C-shaped
45.	* * * * * * * * * * * * * * * * * * *	g statements is incorrect a		uj C-snapcu
тЈ.		=	orupt increase in gonadotro	nic hormones
	•	rcle of menstruation is calle		pic normones
		action about 40 ml blood is		
	d) The menstrual fluid car		5 1050	
46.	=	-	e considered as the safest?	
40.	a) The rhythm method	til collti of fileasures call b		riore
	c) Termination of unwant	rod nyognanay	b) The use of physical bar	
47	•		d) Sterilization technique	S
4/.	Sterilization method used	,		d) Nama of the above
40	a) Vasectomy	b) Tubectomy	c) Both (a) and (b)	d) None of the above
48.	The first case of IVF-ET te	_	=	a out Duoren
	a) Bayliss and Starling Tay		b) Robert Steptoe and Gilbert Brownd) Patrick Steptoe and Robert Edwards	
40	c) Louis Joy Brown and Ba	•	= = = = = = = = = = = = = = = = = = =	
49.		n the coating of condoms,	diaphragms, cervical cap an	id vaults are
	a) For lubrication		b) For shining	
5 0	c) For increasing effective	eness	d) None of the above	
50.	NMEP stands for	-t' D	L) National Massaca Faadi	
	a) National Measal Eradic	-	b) National Mumps Eradication Programme	
- 1	c) National Malaria Eradio	-	d) None of the above	
51.	Example of the non-medic) M	15.7
F 2	a) Cu-T	b) Cu-7	c) Multiload-375	d) Lippes loop
52.	- - -	= = =	ly healthy society was taken	=
5 0	a) 1950s	b) 1960s	c) 1980s	d) 1990s
53.	Condition in which motility			15.41
	a) Azospermia	b) Polyspermia	c) Oligospermia	d) Asthenospermia
54.	Diaphragms, cervical caps	and vaults are	127 6	
	a) Are non-usable		b) For female use only	
	c) For male use only	IDG :	d) None of these	
55.	Detection technique for A			15 01
	a) PCR	b) ELISA	c) Both (b) and (c)	d) Clinical culture

56.	In delaying pregnancy or spacing among children,	the ideal contraceptive is			
	a) IUD b) Natural method	c) Oral contraceptive	d) Pills		
57.	Reproductive health is the well-being of				
	a) Physical aspects	b) Emotional and behavi	oural aspects		
	c) Social aspects	d) All of the above			
58.	In female sterilizationA is cut and tied. This pro	ocess is calledB			
	Fill correct option for A and B				
	a) A-cervix; B-vasectomy	b) A-Fallopian tube; B-tu	ibectomy		
	c) A-cervix; B-tubectomy	d) A-Fallopian tube; B-va			
59.	Which of the following is most convincing reason for		•		
	a) High birth rate	b) Low mortality rate			
	c) Low population of old people	d) High population of yo	ung children		
60.					
00.	a) Methodology	b) Nature of the sperms			
	c) Nature of the cells	d) Number of the cells			
61	Progesterone in the contraceptive pill:	a) Number of the tens			
01.	a) Prevents ovulation	b) Inhibits estrogen			
	c) Checks attachment of zygote to endometrium	d) All the above			
62	Ideal contraceptive should be	u) All tile above			
02.	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	d) Intra Uterine Develop	ment		
64.	In vivo fertilisation involves the fertilisation that to	akes place			
	a) In the laboratory b) In the uterus	c) Outside the uterus	d) Either (a) or (b)		
65.	A woman who substitutes or takes the place of the	real mother to nurse the en	nbryo 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 matched?				
	a) IUI-semen collected from husband or donor is a	rtificially introduced either	into the vagina or into the		
	uterus				
	b) GIFT-transfer of embryos with more than 8 blastomeres into the Fallopian tube				
	c) ICSI-sperm directly injected into the ovum				
	d) ZIFT-transfer of embryos with upto 8 blastomeres into the Fallopian tube				
67.	Choose the correct causes for the population grow	th			
	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, in the reprod	uctive age group			
	V. Rapid increase in the death rate	.) 1 111 1 117	3) 111 177 3 77		
60	a) I, II, III, IV and V b) I, II and IV	c) I, III and IV	d) III, IV and V		
68.	The loss of forests, urbanization and increasing pol		DO - 1 1 2		
60	a) Population explosion b) Global warming	c) Greenhouse effect	d) Ozone depletion		
69.	Find out the true statements for IUD				
	I. They are inserted by expert purses				
	II. They are inserted by expert nurses III. They may be non-medicated IUDs for example,	conner releasing IIIDs or ho	ormone releasing IIIDs		
		CODDCI I CICADINE IODO OL IIU	A MONG I CICASING IUDS		

	IV. They are inter uterine V. Widely accepted in Indi	a			
	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 STI				
	I. Pelvic inflammation dise	ease			
	II. Abortion				
	III. Still birth				
	IV. Ectopic pregnancies V. Infertility				
	VI. Cancer				
	Choose the correct combin	nations			
	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.	Which of the following par	rameter of the population	can be negative?		
	a) Birth rate	b) Replacement level	c) Growth rate	d) All of these	
72.	Condoms are made up of t		•		
	a) Penis in male	b) Cervix in female	c) Both (a) and (b)	d) None of the above	
73.	Write one or the following	•	, , , , , ,	T T	
	a) AIDS-Bacillus anthra		b) Syphilis—Treponema į		
	c) Uretheritis—Entamoeb		d) Gonorrhoea– <i>Leishma</i>		
74.		= =			
	a) IUDs are generally inse	_			
	b) IUDs increase phagocytosis reaction in the uterus				
	c) IUDs suppress gametog				
	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.	•	,	ping foetus by amniocentes	•	
	a) Sex of the foetus	b) Down syndrome	c) Jaundice	d) Klinefelter syndrome	
77.	If the rate of addition of ne	-		•	
	population, then the graph				
	a) Declined growth		b) Exponential growth		
	c) Zero population growth	1	d) None of these		
78.			.,		
	a) 1.8	b) 2.0	c) 2.1	d) 3.5	
79.	NCCP stands for		o) =:=		
	a) National Cholera Contr	ol Programme	b) National Chickenpox C	ontrol Programme	
	c) National Chickenguhya	•	d) None of the above		
80.	Hormone releasing IUDS a	-	-,		
	a) Copper-T	b) LNG-20	c) Saheli	d) Diaphragm	
81.	Given below the symptom	•	•	,	
01.		s are the common symptor	•	· uncondinge, rever,	
	a) AIDS	b) Syphilis	c) Gonorrhea	d) Hepatitis-B	
82.			s because of the following r	, .	
	a) These are effective hard		b) They do not interfere v		
	c) These help in reducing		d) All of the above		
83.	Which of the following is a		•	oviduct:	
00.	a) MTS	b) ET	c) IVF	d) POST	
84.	Correct surgical method o	,	-, - , -	,	
J 11	a) Ovariectomy	b) Hysterectomy	c) Vasectomy	d) Castration	
85.	•		o, raccounty	., Gastianon	
00.	a) Sweden	b) Japan	c) England	d) USA	
86	Consider the statements g		, ,	•	
J J.			P		

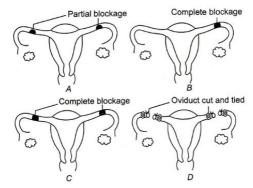
	(1) Medical termination of pregency (MTP) during first trimester is generally safe					
	(2) Generally chances of conception are nil until mother breast-feeds the infant upto two years					
	(3) Intrauterine devices like copper-T are effective contraceptives					
	(4) Contraception pills may be taken upto one week	after coitus to prevent con	ception			
	Which two of the above 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 hormo	one			
	c) Inorganic antisterility vitamin	d) None of the above				
88.	Choose the correct statement regarding the ZIFT pro	cedure:				
	a) Ova collected from a female donor are transferred	b) Zygote is collected from	m a female donor and			
	to the fallopian tube to facilitate zygote formation	transferred to the fallo	ppian tube			
	c) Zygote is collected from a female donor and	d) Ova collected from a fe	emale donor and transferred			
	transferred to the uterus	to the uterus				
89.	First dose of BCG vaccine is given at the time of					
	a) Birth	b) 6 months after birth	V ·			
	c) 8 months after birth	d) 10 months after birth				
90.	RCH stands for		•			
	a) Reproduction and Child Healthcare	b) Reproductive Cum Hyg	giene			
	c) Routine Check-up of Health	d) Reproduction of Child	Health and Care			
91.	Following statements are given regarding MTP. Choo	se the correct options give	en below:			
	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 assistance of qualified medical personnel					
	a) ii and iii b) ii and i	c) i and iv	d) i and ii			
92.	Oral contraceptives have 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 a	nd the cervix hostile toE	3 Find out the correct			
	option for A and B to complete the given NCERT state	ement				
	a) A-Hormonal releasing IUD; B-spermatogonia	b) A-Hormonal releasing	IUD; B-sperms			
	c) A-Sperms; B-Hormonal releasing IUD	d) A-Sperms; B-ova				
94.	Reproductive health involves which of the following?					
	a) Creating awareness	b) Providing facilities and	d support			
	c) Finding new techniques	d) All of these				
95.	Match the given fertilisation methods (A-H) to their i	- ,	I-VI)			
	I. Collected gametes are made to form the zygote in the					
	II. Zygote or early embryo with upto 8 blastomeres is transferred into the oviduct					
	III. Zygote with more than 8 blastomeres, is transferred into the uterus IV. Fusion of the gametes in the female reproductive tract					
	V. Transfer of the ovum from a donor to the oviduct of the recipient					
	VI. Sperm is injected into the ovum, <i>in vitro</i>	r				
	A. GIFT B. ZIFT					
	C. AI D. ICSF					
	E. IUT F. IVF					
	G. IUI H. <i>In vivo</i> 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-				
96	STDs caused by bacteria is/are	ω _j 1 1 j 11 D j 111 11, 1 γ 11 j γ -	1.1) T. I. U.			
, 0.	a) Syphilis b) Gonorrhea	c) Both (a) and (b)	d) None of the above			
97	Which of the following method is used when male na	, , , , ,				

	due to the low sperm cour	nt?		
	a) Al	b) IUI	c) Both (a) and (b)	d) None of these
98.	ZIFT stands for			
	a) Zygote Intra Fallopian '	Гransfer	b) Zygote Inter Fallopian	Transfer
	c) Zygote In Fallopian Tra	nsfer	d) All of the above	
99.	What is the purpose of con	ntraceptive pills?		
	I. They inhibit ovulation a	nd implantation		
			nt or retard the entry of sp	erms
		llated semen from entering	g the female vagina	
	IV. They inhibit spermatog	genesis b) I, II and III	c) I and II	d) I II III and IV
100	Scientific study of human		c) I allu II	d) I, II, III and IV
100.	a) Dramography	b) Dandrography	a) Damagraphy	d) None of these
101	,		c) Damography	a) Notice of these
101.	Population explosion has a) 500 years		a) 100 years	d) F0 waara
102	•	b) 300 years	c) 100 years	d) 50 years
102.	When the 3rd booster and		· ·	
	a) 10 years and 15-16 years	ITS	b) 2 years and 5 years	
102	c) 4 years and 10 years		d) 6 years and 15 years	CCt :
103.			ogen combination and IUDs	
101	a) 72 hr	b) 48 hr	c) 24 hr	d) 96 hr
104.	. Cu ²⁺ ions released from c	opper releasing intra Uteri	ine Devices (IUDS)	
	a) Prevent ovulation	la Carata alla atauta a		
	b) Makes uterus unsuitable	=		
	c) Increases phagocytosis		G X Y	
105	d) Suppresses sperm moti	-	X)'	
105.	Which of the following dis	sease is curable?	<i>></i>	
	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.	•		as the well as quality of cer	,
	entry of sperms.		1 7	1
	•	for A and B to complete th	ne given statement of NCER	T textbook
	a) A-ovulation; B-mucous		J	
	b) A-oogenesis; B-structur	re		
	c) A-oogenesis, B-nucleus	y		
	d) A-spermatogenesis, B-r			
107.	Coitus interruption is the		ral contraception.	
	This sentence is		•	
	a) True		b) False	
	c) Sometimes (a) and som	netimes (b)	d) Neither (a) nor (b)	
108.	NACO stands for	. ,		
	a) National Acid Control C	Organisation	b) National Asisted Contr	ol Organisation
	c) National AIDS Control (-	d) National AIM for Contr	-
109.	In the production of test to	=	•	
	=	and foetus formation is in	iternal	
	=	and foetus formation is ex		
	c) Fertilization and foetus			
	d) Fertilization and foetus			
110.	. Which of the following is t		ed 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	ılation touched 5th billion?				
	a) May 11, 1985	b) July 11, 1986	c) May 11, 1987	d) July 11, 1987		
114.	Diaphragms are contrace	otive devices used by the fe		option from the statements		
	given below:	·				
	i. They are introduced into	o 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			
	affect the sex organs:					
	a) Syphilis	b) AIDS	c) Gonorrhea	d) Genital warts		
116.	Family planning program	•	oj donormon	a) demonstration		
	a) 1941	b) 1951	c) 1961	d) 1981		
117	. Withdrawl method of nati	,	0) 1701	u) 1701		
	a) Withdrawl of penis bef	-	b) Withdrawl of penis after	er ejaculation		
	c) Avoid sex in ovulation	ore ejacatation	d) Prefer sex in ovulation			
118		t even normal fetuses. Sne	cially when sex of the foetu	sis R		
110.	_	for A and B to complete th	_			
	a) A-used; B-male	Tor It and B to complete th	b) A-misused; B-female			
	c) A-used; B-abnormal		d) A-female; B-misused			
119	Example of copper releasi	ng IIID is	d) A Temale, D misused			
11).	a) Cu-T	b) Cu-7	c) Multiload-375	d) All of these		
120	. Which is related to males?	•	c) Multiloud 373	a) Thi of these		
120.	a) Oral pill	b) Tubectomy	c) Vasectomy	d) None of these		
121	•		red safe up to how many we	•		
141.			c) Eighteen weeks			
122				d) bix weeks		
122.		Identify the false statement regarding the techniques of contraception I. There are many side effects of tubectomy and vasectomy				
	-	s to prevent egg formation	=			
			aceptive pill is progesteron	e		
		s help in birth control by pi				
	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					
	a) 1951	b) 1971	c) 1981	d) 1924		
125.		he progesterone or proges	terone oestrogen combinat	tion) are used by the		
	females under the					
	a) Skin of the inner arm a	bove elbow	b) Vagina			
	c) Stomach's upper skin		d) Cervix			
126.	Higher population in citie					
	a) More opportunities for	education	b) Availability of clean dri	nking water		

c) Better sanitation	d) Higher income resourc	ces.
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		
128. The most important component of contraceptive pil	ls is:	
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 capac	ity of sperms
III. Make the uterus unsuitable for implantations		A . Y
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	ar?	
	4/0	
a) Uterine cancer b) Tubectomy	c) Vacactamy	d) Overion concer
	c) Vasectomy	d) Ovarian cancer
131. In India, first census was conducted in:	a) 1021	J) 10F1
a) 1851 b) 1872	c) 1921	d) 1951
132. Infertile couples can produce a baby with the help o		d) All af blac alcass
a) ART b) AIT	c) GIFT	d) All of the above
133. What is the function of copper T?	D. D	
a) Prevents mutation	b) Prevents fertilization	
c) Prevents zygote formation	d) (B) and (C)	
134. What was the world human population in 2000?	2 0 1 1111	12 0 1 1111
a) 6 billion b) 5 billion	c) 3 billion	d) 2 billion
135. When the ovulation is expected in a normal menstru		
a) 10-17 day of menstrual phase	b) 12-14 day of menstrua	=
c) 10-20 day of menstrual phase	d) 6-7 day of menstrual p	hase
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) 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 span	b) Better medical facilitie	S
c) Decrease in death rate	d) All of these	
141. According to 2001 census, Indian population was:		
a) 684 millions b) 844 millions	c) 1027 millions	d) 1128 millions
142. Chancroid is a sexually transmitted disease caused by		
a) Treponema b) Haemophilus	c) Nlisseiria	d) Chlamydia

143. STDs are also called			
a) VD	b) RTI	c) Both (a) and (b)	d) None of these
144. Which of the following	given statements are not co	rrect?	
I. MTP was legalized in	1971		
II. Inability to conceive	or produce children even af	ter two years of unprotecte	ed sexual cohabitation is
called infertility			
III. Surgical method of o	contraception prevents gam	ete formation	
IV. MTPs are relatively	safe up to 20 weeks of preg	nancy	
a) I and III	b) III and IV	c) III and II	d) I and II
145. Population explosion of	ccurs due to		
a) Decline maternal mo	rtality rate		4 ' }
b) Decline rate of infant	t mortality		
c) Better medical servi	ce		
d) All of the above			
146. Zero growth means:			
a) Natality is zero		b) Natality balances mor	rtality
c) Natality is less than i	nortality	d) Natality is more than	mortality
147. Population of India was	approximately million	at the time of independenc	e
a) 350 million	b) 400 million	c) 500 million	d) 600 million
148. MTP helps in			
a) Unwanted pregnanc		b) Unsafe sex	
c) Failure of contracept	tive	d) All of the above	
149. Which of the following	causes abortion in ladies?		
a) Viruses	b) Bacteria	c) Mycoplasma	d) None of these
150. Periodic abstinence is a	voiding sex during		
a) Luteal phase	b) Ovulatory phase	c) Menstrual phase	d) None of these
151. A method of birth cont			
a) GIFT	b) ZIFT	c) IVF-ET	d) IUDs
152. July 11 is observed as:			
a) World population da		b) No tobacco day	
c) World environment		d) World health day	
153. Early symptoms of mos	t STDs is		
I. Itching			
II. Fluid discharge III. Slight pain			
IV. Swelling			
Choose the correct opti	on		
a) I, II and IV	b) I, III and II	c) I, IV and III	d) I, II, III and IV
154. During which phase of		, ,	
a) 1st trimester	b) 2nd trimester	c) 3rd trimester	d) 4th trimester
155. Human population grov	_	•	,
a) Lag	b) Stationary	c) Exponential	d) None of these
156. In which condition of the	-	_	•
\mathcal{J}	•		



- 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 calledB... .

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 to

	a) Determine any disease of heart		
	b) Determine any hereditary disease of the embryo		
	c) Know about the diseases of the brain		
	d) Grow the cells on the culture medium		
166.	Secondary infertility is		
	a) Patient who can't do coitus (sex)	b) Sterility	
	c) Impotency	d) It indicate previous pre	egnancy but failure to
		conceive subsequently	
167.	. What is false for GIFT?	1 7	
	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 produce	ova)	A . Y
168.	Misuse of amniocentesis results in	•	
	a) Male foeticide b) Female foeticide	c) Both (a) and (b)	d) None of these
169.	. Worlds AIDS day and world earth day are celebrated		
	AIDS Day World Earth Day	Ĉ.	
	a) 22 April 1 December	b) 2 December 24 Apri	ì
	c) 1 December 22 April	d) 2 December 24 Apri	l
170.	Copper releasing IUDs are used for suppressing the		
	a) Activity of ova	b) Activity of the uterus	
	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		, 11
	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 Res	search Institute
	c) Central Drug Research Institute	d) Common Development	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 Phase	
	c) Menstrual Pain	d) None of the above	
178.	. IVF in which the early zygote with up toA blastor	nere is transferred to the F	allopian tube is calledB.
	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		
	a) Zygote in the Fallopian transfer	b) Type of IVF	
	c) More than 8 blastomeres are used	d) Zygote or embryo are u	ısed
180.	In contraception, sperm motility decreases due to		
	a) Cu ion b) Fe ion	c) Zn ion	d) Se ion
181.	July 11 is :		
	a) World Environment day	b) World Population day	
	c) World AIDS day	d) World Education day	
182.	. What was the world human population in 2011?	-	
	a) 6 billion b) 7 billion	c) 3 billion	d) 5 billion

183	. "Saheli" contraceptive ora	al pill was developed at:		
	a) Department of Biotech	nology, New Delhi	b) CDRI, Lucknow	
	c) NEERI, Nagpur		d) Department of Molecular Biology, Hydrabad	
184	. STDs caused by viruses ar	re		
	I. AIDS			
	II. Hepatitis-B			
	III. Genital herpes			
	a) I, II and III	b) I and III	c) II and III	d) I and II
185	. Artificial insemination me			
	= = = = = = = = = = = = = = = = = = =	nusband to a test tube conta	-	
	=	of sperms of a healthy dono	-	
	c) Introduction of sperms	s of a healthy donor directly	y into the ovary	
	d) Transfer of sperms of a	healthy donor to a test tul	oe containing ova	A Y
186	. Emergency contraceptive	s are effective if used withi	n:	
	a) 72 hrs of coitus		b) 72 hrs of ovulation	
	c) 72 hrs of menstruation	1	d) 72 hrs of implantation	
187	. The number of organisms	in population are added by	y:	
	a) Immigration	b) Birth	c) Emigration	d) Both (A) and (B)
188	. Certain characteristic den	nographic features of devel	oping countries are:	
	a) High fertility, high dens	sity, rapidly rising mortalit	y rate and a very young age	distribution
	b) High infant mortality ra	ate, low fertility, uneven po	pulation growth and a very	y young age distribution
	c) High mortality, high de	ensity, uneven population g	rowth and a very old age d	istribution
	d) High fertility, low rapid	dly falling mortality rate, ra	pid 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 Progr	ramme employs which one	of the following techniques	s?
	a) Intra uterine insemina	tion (IUI)	b) Gamete intra fallopian	transfer (GIFT)
	c) Zygote intra fallopian t	ransfer (ZIFT)	d) Intra cytoplasmic speri	m injection (ICSI)
191	. Primary infertile patient i	s the person who;		
	a) Never conceived		b) Could conceive	
	c) Can't produce ova		d) None of the above	
192		A then 8 blastomere is t	ransferred into female bod	ly it is calledB
	a) A-more; B-IUT	b) A-less; B-IUT	c) A-less; B-ZIFT	d) A-less; B-ICSI
193	. Indicators of the improve	d reproductive health of th	•	
	a) Better detection and cu	•	v	
	b) Improved medical facil			
	c) Decreased maternal an			
	d) All of the above	J		
194	. MMR (Measles, Mumps, R	tubella) vaccine is given at		
	a) 15-25 months	b) 15-18 months	c) 2 years	d) 5 years
195	. Amniocentesis is the dete	-	o) = years	ay o y care
	a) Chromosomal pattern			
	b) Chorionic fluid from de	=		
	c) Chromosomal pattern			
	d) Chromosomal pattern			
196		lactational period because	of	
170	a) Inhibin	b) Prolactin	c) Prostaglandin	d) Oxytocin
197	. Hepatitis-B and HIV sprea	•	o, i roomgianam	a, on, wein
1)/	a) Sharing needless	in ough	b) Transfusion of blood	
	c) Infected mother to chil	d	d) All of the above	
	-,		,	

198. Match the following figures with their respective identify

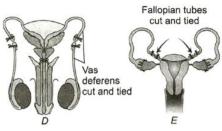
- I. Tubectomy II. Vasectomy
- III. Implants IV. Condoms

V. Copper-T









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

- b) A-IV; B-IV; C-II; D-I; E-V
- d) A-III; B-IV; C-V; D-I; E-II
- b) Fertilization
- d) Entry of sperms in vagina

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

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: 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 drawingamniotic 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)
- 9 **(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

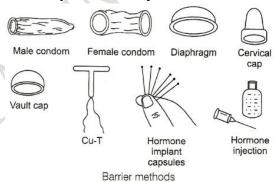
20 **(c)**

Barrier Methods

vagina of the female.

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

- (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

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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.

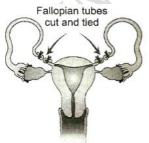
They are two types

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.

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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	C
	Oral Polio	
	Vaccine 4th Dose	
6-9	Oral Polio	4/1/1/
months	Vaccine 5th Dose	
	Hepatitis-B	
	Vaccine 3rd Dose	
9 months	Measles Vaccine	7
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	
	D	1
J -	Booster Dose	
, -	Hepatitis-B	
_	Hepatitis-B Vaccine	
	Hepatitis-B Vaccine Booster Dose	
15-16	Hepatitis-B Vaccine	

43 (a)

Contraceptive pills contains progesterone and oestrogen hormones. These hormones suppresses

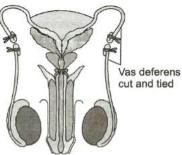
the FSH (Follicle Stimulating Hormone). FSH stimulates the ovulation

47 **(c)**

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

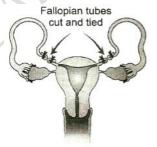
They are two types

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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

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

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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)**

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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

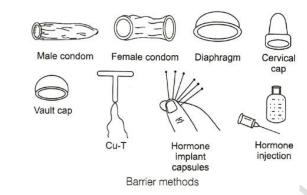
72 **(c)**

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.

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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
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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

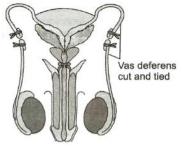
84 **(c)**

Vasectomy.

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

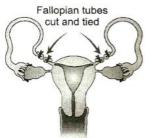
They are two types

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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 Vaccines
Birth	BCG (Bacillus	6 weeks
	calmittte Guerin)	Haemophilus

	T	T
6 weeks	Oral Polio	10 weeks
	Vaccine 1st Dose	influenza
	Hepatitis-B	Туре В
	Vaccine 1st Dose	14 weeks
	DPT 1st Dose	
	Oral Polio	
	Vaccine 2nd Dose	
		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	
Joans	Dose	
	Oral Polio	
	Vaccine 7th Dose	
10 years	TT (Tetanus) 3rd	
10 , 50113	Booster Dose	
	Hepatitis-B	
	Vaccine	
	Booster Dose	
15-16	TT (Tetanus) 4th	
	Booster Dose	
years	שטטאנפו שטאפ	

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

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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
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	DPT 1st Booster	
	Dose	
	Oral Polio	
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	Dose	
	Oral Polio	
	Vaccine 7th Dose	
10 years	TT (Tetanus) 3rd	
	Booster Dose	
	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.

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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)**

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117 (a)

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118 **(b)**

Significance of MTP

- (i) It helps in getting rid of unwanted pregnancies and such pregnancies, which may be harmful or even fatal either to the mother or to the foetus or both
- (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)

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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

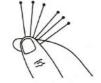
- (i) Avoid sex with unknown multiple partners
- (ii) Always use condoms during coitus
- (iii) In case of Doubt go to the qualified doctors

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

127 **(b)**

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
- (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

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

F		
Year	Population	
1700 AD	0.6 billion	
1850	1 billion	
1930	2 billion	
1965	3.5 billion	
1975	4 billion	
1990	5 billion	
2000	6.1 billion	
2011	7 billion	

Population of India 1901-2011

Year	Population
1901	238, 396, 327
1911	252, 093, 390
1921	251, 321, 213
1931	278, 977, 238
1941	318, 660, 580
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1961	439, 234, 771
1971	548, 159, 652
1981	685, 148, 692
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

Vaccine	Optional
	Vaccines
BCG (<i>Bacillus</i>	6 weeks
calmittte Guerin)	Haemophilus
Oral Polio	10 weeks
	BCG (<i>Bacillus</i> calmittte Guerin)

Ī		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
ŀ	10 weeks	DPT 2nd Dose	2 years
			typhoid
			vaccine other
		Oral Polio	1 year
		Vaccine 3rd Dose	chickenpox
			•
Ī	14 weeks	DPT 3rd Dose	7
		Oral Polio	
		Vaccine 4th Dose	
Ī	6-9	Oral Polio	
	months	Vaccine 5th Dose	
	4	Hepatitis-B	
		Vaccine 3rd Dose	
Ī	9 months	Measles Vaccine	
Ī	15-18	MMR (Measles,	
8	months	Mumps, Rubella)	
1	/ / / /	DPT 1st Booster	
١		Dose	
		Oral Polio	
		Vaccine 6th Dose	
ſ	5 years	DPT 2nd Booster	
		Dose	
		Oral Polio	
		Vaccine 7th Dose	
ſ	10 years	TT (Tetanus) 3rd	
		Booster Dose	
		Hepatitis-B	
		Vaccine	
		Booster Dose	
	15-16	TT (Tetanus) 4th	
	years	Booster Dose	

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.

Human World Population

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2001	1,027, 015, 247	
2011	1,210, 193, 422	

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

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

planning.

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

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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**.

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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.

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

Human World Population

maman monar opanaci		
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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)

193 **(d)**

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.

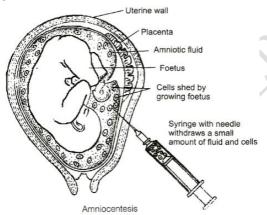
National Immunization Schedules

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

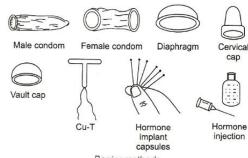
In lactating mother, there is the release and the production of milk secreting hormone. These hormones suppresses the release of Follicle

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

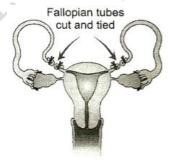
198 (a)



Barrier methods



Vasectomy



Tubectomy

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