

BIOLOGY (QUESTION BANK)

4.REPRODUCTIVE HEALTH

Single Correct Answer Type

- 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
- Which IUD increases the phagocytosis of the sperms within the uterus?
a) Non-medicated IUD b) Copper releasing IUD
c) Both (a) and (b) d) Hormone releasing IUD
- The permissible use of the technique amniocentesis is for
a) Detecting any genetic abnormality
b) Detecting sex of the unborn foetus
c) Artificial insemination
d) Transfer for embryo into the uterus of a surrogate mother
- Find out the natural contraception methods
I. Implantation
II. Lactational (amenorrhoea)
III. Condoms
IV. Vasectomy
V. Tubectomy
VI. Sterilisation
a) I and II b) III and IV c) V and VI d) Only II
- “Theory of four humors” was proposed by:
a) Theophrastus b) Aristotle c) Alexander d) Pluto
- Female condoms are called
a) Femidom b) Female condom
c) Contraceptive condom d) None of these
- NSEP stands for
a) National Smallpox Eradication Programme b) National Sickness Eradication Programme
c) National Syphilis Eradication Programme d) None of the above
- Study of population trends is:
a) Kalography b) Psychobiology c) Biography d) Demography
- Find out sexually transmitted diseases among the given below
I. AIDS II. Syphilis
III. Gonorrhoea IV. Malaria
V. Hepatitis-B VI. TB
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
- What is the difference in oral contraceptives and hormonal implants?
a) They differ in their sites of implantation b) They differ in their duration of action
c) Both (a) and (b) d) None of the above

II. Complete lactation helps in contraception

III. Spreading awareness can help to create a reproductively healthy society

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 – Venereal Disease

III. RTI – Reproductive Tract Infection

a) I and II b) II and IV c) I and III d) I, II and III

28. NCFP 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 recommended 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) Gonorrhoea

c) AIDS

d) Herpes

34. The prenatal technique to determine the genetic disorders in a foetus is called

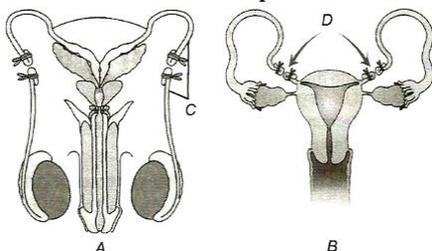
a) Laparoscopy

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 population 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 mechanical barrier used 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 statement
 I. Pills prevents ovulation of contraception technique
 II. Copper-T prevents implantation
 III. Vasectomy produces semen containing no sperm
 a) I and II b) II and III c) I and III d) I, II and III
42. 1st, 2nd, 3rd dose of DPT is 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. Which hormone of the female body is suppressed by the oral contraceptive pills?
 a) FSH b) Inhibit c) Progesterone d) Testosterone
44. Growth curve is normally:
 a) J-shaped b) V-shaped c) S-shaped d) C-shaped
45. Which one of the following statements is incorrect about menstruation?
 a) At menopause in the female, there is especially abrupt increase in gonadotropic hormones
 b) The beginning of the cycle of menstruation is called menarche
 c) During normal menstruation about 40 ml blood is lost
 d) The menstrual fluid can easily clot
46. Which of the following birth control measures can be considered as the safest?
 a) The rhythm method b) The use of physical barriers
 c) Termination of unwanted pregnancy d) Sterilization techniques
47. Sterilization method used in human beings is/are called
 a) Vasectomy b) Tubectomy c) Both (a) and (b) d) None of the above
48. The first case of IVF-ET techniques success, was reported by:
 a) Bayliss and Starling Taylor b) Robert Steptoe and Gilbert Brown
 c) Louis Joy Brown and Banting best d) Patrick Steptoe and Robert Edwards
49. Spermicidal cream used on the coating of condoms, diaphragms, cervical cap and vaults are
 a) For lubrication b) For shining
 c) For increasing effectiveness d) None of the above
50. NMEP stands for
 a) National Measal Eradication Programme b) National Mumps Eradication Programme
 c) National Malaria Eradication Programme d) None of the above
51. Example of the non-medicated IUD is
 a) Cu-T b) Cu-7 c) Multiload-375 d) Lippes loop
52. A national level approach to build up a reproductively healthy society was taken up in our country in:
 a) 1950s b) 1960s c) 1980s d) 1990s

53. Condition in which motility remains very less is
 a) Azospermia b) Polyspermia c) Oligospermia d) Asthenospermia
54. Diaphragms, cervical caps and vaults 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
 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 behavioural aspects
 c) Social aspects d) All of the above
58. In female sterilization ...A... is cut and tied. This process is calledB... .
 Fill correct option for A and B
 a) A-cervix; B-vasectomy b) A-Fallopian tube; B-tubectomy
 c) A-cervix; B-tubectomy d) A-Fallopian tube; B-vasectomy
59. Which of the following is most convincing reason for increase population growth in a country?
 a) High birth rate b) Low mortality rate
 c) Low population of old people d) High population of young 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 endometrium 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 d) Intra Uterine Development
64. *In vivo* fertilisation involves the fertilisation that takes 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 embryo 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 artificially 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 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, in the reproductive age group

- V. Rapid increase in the death rate
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 pollution due to:
a) Population explosion b) Global warming c) Greenhouse effect d) Ozone depletion
69. Find out the true statements 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 devices
V. Widely accepted in India
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 STDs are
I. Pelvic inflammation disease
II. Abortion
III. Still birth
IV. Ectopic pregnancies
V. Infertility
VI. Cancer
Choose the correct combinations
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 parameter 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 thin rubber/latex sheath which is used to cover
a) Penis in male b) Cervix in female c) Both (a) and (b) d) None of the above
73. Write one or the following correctly matched Sexually Transmitted Disease (STD) with its pathogen?
a) AIDS—*Bacillus anthracis* b) Syphilis—*Treponema pallidum*
c) Urethritis—*Entamoeba gingivalls* d) Gonorrhoea—*Leishmania donovani*
74. 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 gametogenesis
d) IUDs once inserted need not be replaced
75. MTP is of much risk in the phase of the pregnancy
a) 2nd trimester b) 1st trimester c) 1st week d) 2nd week
76. Which of the following cannot be detected in developing foetus by amniocentesis?
a) Sex of the foetus b) Down syndrome c) Jaundice d) Klinefelter syndrome
77. If the rate of addition of new members increases with respect to the individual host of the same population, then the graph obtained has:
a) Declined growth b) Exponential growth
c) Zero population growth d) None of these
78. Replacement rate is estimated to be:
a) 1.8 b) 2.0 c) 2.1 d) 3.5
79. NCCP stands for
a) National Cholera Control Programme b) National Chickenpox Control Programme
c) National Chickenguhya Control Programme d) None of the above
80. Hormone releasing IUDs among the following are
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) Gonorrhoea d) Hepatitis-B
82. Condoms are one of the most popular contraceptives because of the following reasons:

- a) These are effective barriers for insemination b) They do not interfere with coital act
 c) These help in reducing the risk of STDs d) All of the above
83. Which of the following is a technique of direct introduction of gametes into the oviduct:
 a) MTS b) ET c) IVF d) POST
84. Correct surgical method 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 statements given below regarding contraception and answer as directed there after:
 (1) Medical termination of pregnancy (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 conception
 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 hormone
 c) Inorganic antisterility vitamin d) None of the above
88. Choose the correct statement regarding the ZIFT procedure:
 a) Ova collected from a female donor are transferred to the fallopian tube to facilitate zygote formation
 b) Zygote is collected from a female donor and transferred to the fallopian tube
 c) Zygote is collected from a female donor and transferred to the uterus
 d) Ova collected from a female donor and transferred to the uterus
89. First dose of BCG vaccine 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. Following statements are given regarding MTP. Choose the correct options given 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 and the cervix hostile to ...B... . Find out the correct option for A and B to complete the given NCERT statement
 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 support
 c) Finding new techniques 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
 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, *in vitro*

- A. GIFT B. ZIFT
 C. AI D. ICSF
 E. IUT F. IVF
 G. IUI H. *In vivo* 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 bacteria is/are
 a) Syphilis b) Gonorrhoea c) Both (a) and (b) d) None of the above
97. Which of the following method is used when male partner is unable to inseminate into the female partner due to the low sperm count?
 a) AI b) IUI c) Both (a) and (b) d) None of these
98. ZIFT stands for
 a) Zygote Intra Fallopian Transfer b) Zygote Inter Fallopian Transfer
 c) Zygote In Fallopian Transfer d) All of the above
99. What is the purpose of contraceptive pills?
 I. They inhibit ovulation and implantation
 II. They alter the quality of cervical mucous to prevent or retard the entry of sperms
 III. They prevent the ejaculated semen from entering the female vagina
 IV. They inhibit spermatogenesis
 a) I, II and IV b) I, II and III c) I and II d) I, II, III and IV
100. Scientific study of human population is called
 a) Dramography b) Dandrography c) Damography d) None of these
101. Population explosion has occurred in the last:
 a) 500 years b) 300 years c) 100 years d) 50 years
102. When the 3rd booster and the 4th booster dose of tetanus is given to a child?
 a) 10 years and 15-16 years b) 2 years and 5 years
 c) 4 years and 10 years d) 6 years and 15 years
103. Administration of progesterone, progesterone oestrogen combination and IUDs are effective in
 a) 72 hr b) 48 hr c) 24 hr d) 96 hr
104. Cu^{2+} ions released from copper releasing Intra Uterine Devices (IUDs)
 a) Prevent ovulation
 b) Makes uterus unsuitable for implantation
 c) Increases phagocytosis of the sperms
 d) Suppresses sperm motility
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. Oral contraceptives inhibits ...A... and implantation as the well as quality of cervical ...B.... to prevent the entry of sperms.
 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-structure
 c) A-oogenesis, B-nucleus
 d) A-spermatogenesis, B-mucous
107. Coitus interruption is the withdrawl method of natural contraception.
 This sentence is
 a) True b) False
 c) Sometimes (a) and sometimes (b) d) Neither (a) nor (b)

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 progesterone oestrogen combination) are used by the females under the

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 drinking water

c) Better sanitation

d) Higher income resources.

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 pills 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 motility and fertilizing capacity of sperms

III. Make the uterus unsuitable for implantations

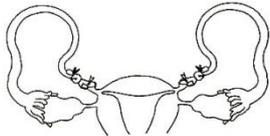
a) I, II and III

b) I and II

c) Only I

d) None of the above

130. Which is the figure given below showing in particular?



a) 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 of

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 menstrual cycle?

a) 10-17 day of menstrual phase

b) 12-14 day of menstrual phase

c) 10-20 day of menstrual phase

d) 6-7 day of menstrual phase

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 implement 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**

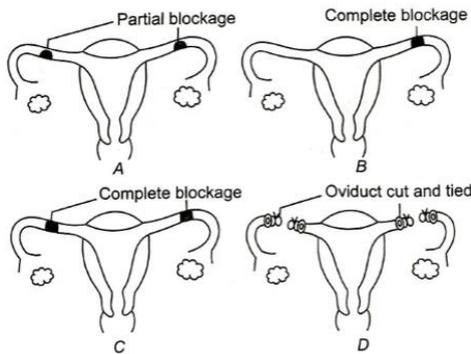
a) 21 years 18 years

b) 25 years 17 years

155. Human population growth is:

- a) Lag b) Stationary c) Exponential d) None of these

156. In which condition of the uterus, fertilisation 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 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 pregnancy but failure to conceive subsequently
167. What is false for GIFT?
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)
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 on
AIDS Day World Earth Day
a) 22 April 1 December b) 2 December 24 April
c) 1 December 22 April d) 2 December 24 April
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 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 Research 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 to ...A... blastomere is transferred to the Fallopian tube is called ...B...
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 used
180. In contraception, sperm motility decreases due to
a) Cu ion b) Fe ion c) Zn ion d) Se ion

d) Chromosomal pattern before fertilisation

196. Ovulation do not occur in lactational period because of

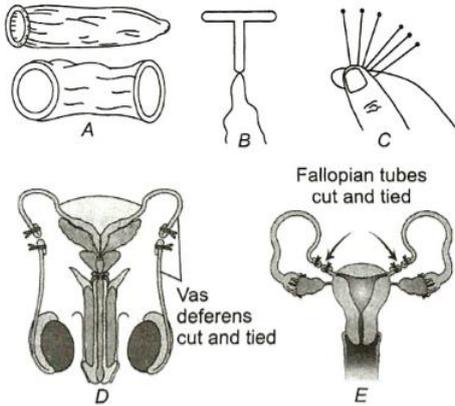
- a) Inhibin b) Prolactin c) Prostaglandin d) Oxytocin

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

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

BIOLOGY (QUESTION BANK)**4.REPRODUCTIVE HEALTH****: ANSWER KEY :**

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

BIOLOGY (QUESTION BANK)**4.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) These 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 congenital defect, 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 (whooping 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 parasite called *plasmodium vivax*. When female *Anopheles* mosquito bites then these parasites go 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 withdrawal method**

Withdrawal 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 constituents (secretion of Cowper'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)

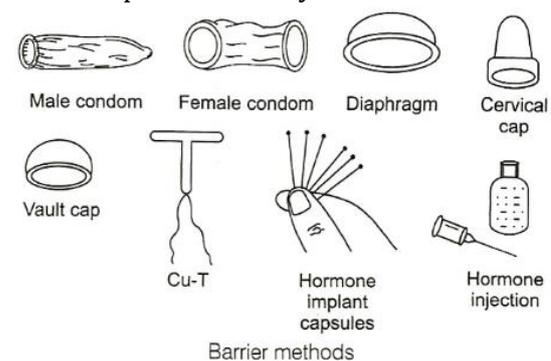
Barrier Methods

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 monosteroidal 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 Venereal 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 (whooping 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)

Gonorrhoea is the common sexual transmitted disease in India

35 (c)

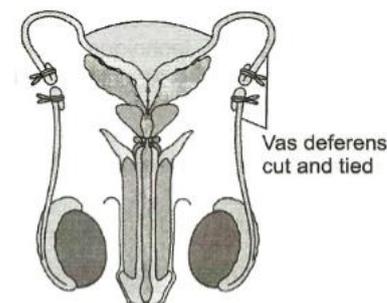
A-Vasectomy, B-Tubectomy, C-Vas deferens cut and tied, D-Fallopian tube cut and tied.

Surgical Method of Contraception (sterilization)

There are terminal and the permanent methods, which blocks the transport of gametes by preventing conception.

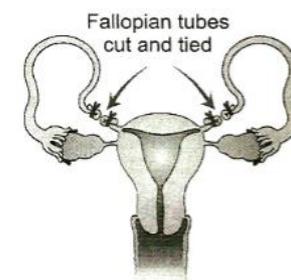
They are two types

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 Leprosy 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 (whooping cough)
(iii) Tetanus (iv) Polio

3. Tuberculosis (vii) Measles

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- (e) National Filaria Control Programme (NFCP)
- (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 calmitte Guerin</i>)	6 weeks Haemophilus
6 weeks	Oral Polio Vaccine 1st Dose Hepatitis-B Vaccine 1st Dose DPT 1st Dose Oral Polio Vaccine 2nd Dose Hepatitis-B Vaccine 2nd Dose	10 weeks influenza Type B 14 weeks 2 years hepatitis-A vaccine Two doses 6 months A part
10 weeks	DPT 2nd Dose Oral Polio Vaccine 3rd Dose	2 years typhoid vaccine other 1 year chickenpox
14 weeks	DPT 3rd Dose Oral Polio Vaccine 4th Dose	
6-9 months	Oral Polio Vaccine 5th Dose Hepatitis-B Vaccine 3rd Dose	
9 months	Measles Vaccine	
15-18 months	MMR (Measles, 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 years	TT (Tetanus) 4th Booster Dose	

43 (a)

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

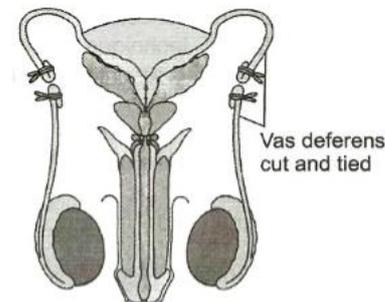
47 (c)

Surgical Method of Contraception (sterilization)

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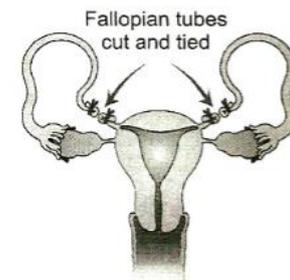
They are two types

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

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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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Hormone Releasing IUDs They makes the uterus 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.

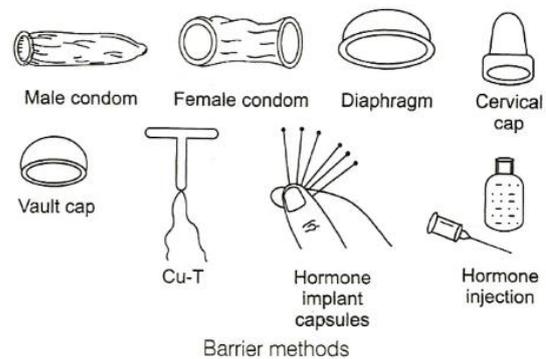
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(iii) **Spermicidal creams, jellies and foams** are used along with these barriers to increase their contraceptive efficiency



75 (a)

Second trimester.

MTP is safe until 1st trimester (12 weeks) of the pregnancy. It becomes more risky after the 1st trimester period of pregnancy as the foetus becomes intimately associated with the maternal tissue

79 (a)

National Cholera 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 (whooping cough)
- (iii) Tetanus (iv) Polio
- 5. Tuberculosis (vii) Measles

National Programmes

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- (c) National Leprosy Control Programme (NLCP)

(d) National Smallpox Eradication Programme (NSEP)

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

81 (c)

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

84 (c)

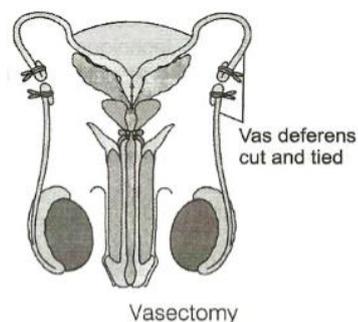
Vasectomy.

Surgical Method of Contraception (sterilization)

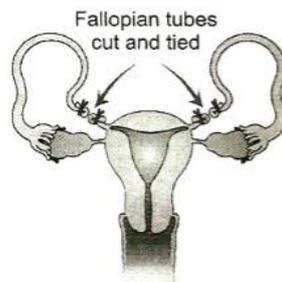
There are terminal and the permanent methods, which blocks the transport of gametes by preventing conception.

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



Tubectomy In females a small part of the Fallopian tube is removed or tied up through a small incision in the abdomen called 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 (<i>Bacillus calmette Guerin</i>)	6 weeks Haemophilus
6 weeks	Oral Polio Vaccine 1st Dose Hepatitis-B Vaccine 1st Dose DPT 1st Dose Oral Polio Vaccine 2nd Dose Hepatitis-B Vaccine 2nd Dose	10 weeks influenza Type B 14 weeks 2 years hepatitis-A vaccine Two doses 6 months A part
10 weeks	DPT 2nd Dose Oral Polio Vaccine 3rd Dose	2 years typhoid vaccine other 1 year chickenpox
14 weeks	DPT 3rd Dose Oral Polio Vaccine 4th Dose	
6-9 months	Oral Polio Vaccine 5th Dose Hepatitis-B Vaccine 3rd Dose	
9 months	Measles Vaccine	
15-18 months	MMR (Measles, 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 years	TT (Tetanus) 4th 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, impairing 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	- <i>Treponema pallidum</i>
Gonorrhoea	- <i>Neisseria gonorrhoea</i>
Chancroid	- <i>Haemophilus ducreyi</i>

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 calmette Guerin</i>)	6 weeks Haemophilus

6 weeks	Oral Polio Vaccine 1st Dose Hepatitis-B Vaccine 1st Dose DPT 1st Dose Oral Polio Vaccine 2nd Dose Hepatitis-B Vaccine 2nd Dose	10 weeks influenza Type B 14 weeks 2 years hepatitis-A vaccine Two doses 6 months A part
10 weeks	DPT 2nd Dose Oral Polio Vaccine 3rd Dose	2 years typhoid vaccine other 1 year chickenpox
14 weeks	DPT 3rd Dose Oral Polio Vaccine 4th Dose	
6-9 months	Oral Polio Vaccine 5th Dose Hepatitis-B Vaccine 3rd Dose	
9 months	Measles Vaccine	
15-18 months	MMR (Measles, 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 years	TT (Tetanus) 4th 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
(i) These 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

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 withdrawal method**
Withdrawal 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.

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

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

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

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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)

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

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

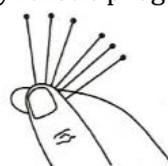
(iii) In case of Doubt go to the qualified doctors

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) These 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.

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Year	Population
1700 AD	0.6 billion
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1990	5 billion
2000	6.1 billion
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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
1951	361, 088, 090
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 12th -14th 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

Age	Vaccine	Optional Vaccines
Birth	BCG (<i>Bacillus calmitte Guerin</i>)	6 weeks Haemophilus
6 weeks	Oral Polio Vaccine 1st Dose Hepatitis-B Vaccine 1st Dose DPT 1st Dose Oral Polio Vaccine 2nd Dose Hepatitis-B Vaccine 2nd Dose	10 weeks influenza Type B 14 weeks 2 years hepatitis-A vaccine Two doses 6 months A part
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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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2001	1,027, 015, 247
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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 congenital defect, 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) These 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

171 (a)

'Hum do Humare Do' slogan encourages family 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) These 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 warts

- 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.

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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 sex-related 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.

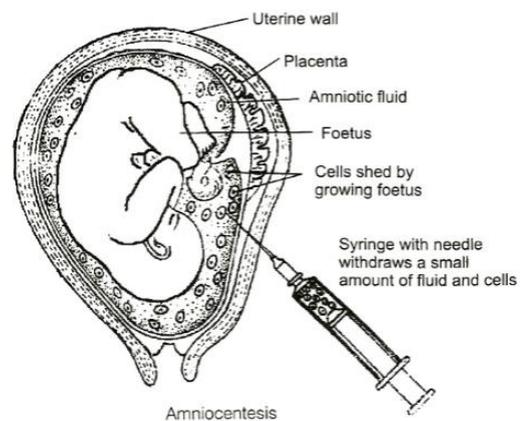
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10 weeks	DPT 2nd Dose Oral Polio Vaccine 3rd Dose	2 years typhoid vaccine other 1 year chickenpox
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6-9 months	Oral Polio Vaccine 5th Dose Hepatitis-B Vaccine 3rd Dose	
9 months	Measles Vaccine	

15-18 months	MMR (Measles, 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 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

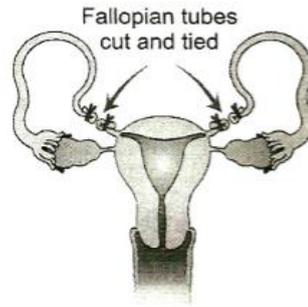
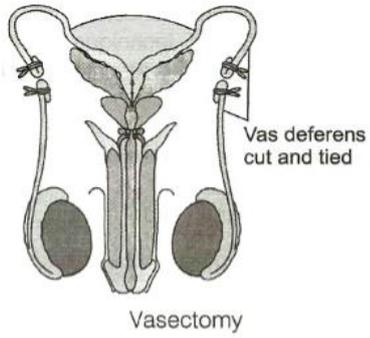
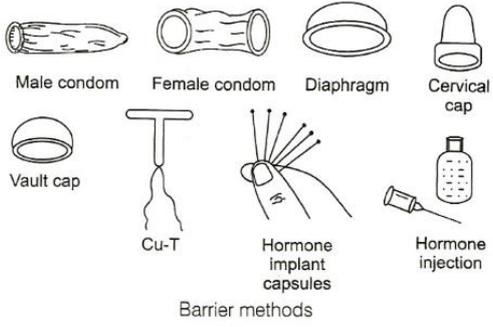
196 (b)

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)



Tubectomy

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

Session : 2025-26

AS PER NEW NTA SYLLABUS

Total Questions : 215

BIOLOGY (QUESTION BANK)
4.REPRODUCTIVE HEALTH

Assertion - Reasoning Type

This section contain(s) 0 questions numbered 1 to 0. Each question contains STATEMENT 1(Assertion) and STATEMENT 2(Reason). Each question has the 4 choices (a), (b), (c) and (d) out of which **ONLY ONE** is correct.

- a) Statement 1 is True, Statement 2 is True; Statement 2 **is** correct explanation for Statement 1
- b) Statement 1 is True, Statement 2 is True; Statement 2 **is not** correct explanation for Statement 1
- c) Statement 1 is True, Statement 2 is False
- d) Statement 1 is False, Statement 2 is True

1

Statement 1: Zero population growth should be achieved as early as possible to control human population

Statement 2: This requires not two children per couple but a little more

2

Statement 1: One in every sex person in the world is an Indian

Statement 2: In India, there are more females than males

3

Statement 1: Use of condoms is a safeguard against AIDS and sexual diseases besides checking pregnancy

Statement 2: Certain contraceptives are planted under the skin of the upper arm to prevent pregnancy

4

Statement 1: Over-population has become a serious problem in the developing countries

Statement 2: It do not exhaust natural resources, causes unemployment and pollution

5

Statement 1: Human population doubles after every 35 years as against 200 years in 1600-1800

Statement 2: Rapid increase is due to the better health facilities

6

Statement 1: Mother should be blamed for the birth of the girls in the family

Statement 2: Father is not responsible for the sex of the child

7

Statement 1: Amniocentesis is often misused

Statement 2: Amniocentesis is meant for determining the genetic disorders in the foetus, but it is being used to determine the sex of the foetus, to kill the normal female foetus

BIOLOGY (QUESTION BANK)

4.REPRODUCTIVE HEALTH

: ANSWER KEY :

- | | | | | | | | |
|----|---|----|---|----|---|----|---|
| 1) | a | 2) | c | 3) | b | 4) | c |
| 5) | a | 6) | d | 7) | a | | |

BIOLOGY (QUESTION BANK)

4.REPRODUCTIVE HEALTH

: HINTS AND SOLUTIONS :

- | | |
|--|--|
| <p>1 (a)
Two children per couple holds good for zero population growth. But in large democratic countries like India, it will take many years for population growth to get the zero level. So we need little more if we want zero growth</p> <p>2 (c)
In India, there are more males than females. India's population as on March 1, 2011 - 1, 210, 193, 422
Males - 623, 724, 248
Females - 586, 469, 174
Sex ratio - 940, 27 females per 10,00 males
Among states Kerala has the highest sex ratio (1084) and among Union Territories (UTs). Daman has the lowest (618)</p> <p>3 (b)
AIDS can be prevented by using condoms. Condoms are the barrier contraceptive method.</p> | <p>4 (c)
Over population may exhaust natural resources, causes unemployment and pollution</p> <p>5 (a)
Better medical services plays a major role in increasing the population together with the food reserves. Now, we have vaccines for almost all dreadful diseases for infants. We have discovered various methods to combat against TB, plague, malaria, which was considered to be fatal in the past</p> <p>6 (d)
Mother is homogametic (produce X, X) and father is heterogametic (X and Y). So, father is responsible for the sex of the child not mother</p> <p>7 (a)
Both A and R are true and R is the correct explanation of A</p> |
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Session : 2025-26

AS PER NEW NTA SYLLABUS

Total Questions : 215

BIOLOGY (QUESTION BANK)
4.REPRODUCTIVE HEALTH

Matrix-Match Type

This section contain(s) 0 question(s). Each question contains Statements given in 2 columns which have to be matched. Statements (A, B, C, D) in **columns I** have to be matched with Statements (p, q, r, s) in **columns II**.

1. Match the following columns

	Column-I	Column- II
(A)	Non-mediated IUD	(1) Progestasert and LNG-20
(B)	Copper releasing IUD	(2) Lippes loop
(C)	Hormone releasing IUD	(3) Cu-T, Cu-7 and multiload-375

CODES :

	A	B	C	D
a)	3	2	1	
b)	1	2	3	
c)	2	3	1	
d)	2	1	3	

2. Match the following columns

	Column-I	Column- II
(A)	Chlamydiasis	(1) <i>Chlamydia trachomatis</i>
(B)	Gonorrhoea	(2) <i>Neisseria gonorrhoeae</i>
(C)	Trichomoniasis	(3) <i>Trichomonas vaginalis</i>
(D)	Genital herpes	(4) Herpes simplex virus
(E)	Syphilis	(5) <i>Treponema pallidum</i>

CODES :

	A	B	C	D	E
a)	1	3	2	4	5
b)	4	5	3	2	5
c)	1	2	3	4	5
d)	1	2	4	3	5

3. Match the following columns

	Column-I	Column- II
(A)	Barrier	(1) Copper-T
(B)	IUD	(2) Vasectomy and tubectomy
(C)	Surgical technique	(3) Condoms cervical Caps
(D)	Adminisitrating hormones	(4) Oral, pill and saheli

CODES :

	A	B	C	D
a)	4	2	1	3
b)	1	2	3	4
c)	4	3	2	1
d)	3	1	2	4

4. Match the following columns.

	Column-I	Column- II
(A)	Hepatitis-B	(1) HIV
(B)	AIDS	(2) HBV
(C)	Genital worts	(3) HPV

CODES :

	A	B	C	D
a)	1	2	3	
b)	3	2	1	
c)	3	1	2	
d)	2	1	3	

5. Match the following columns

Column-I	Column- II
(A) ZIFT	(1) Zygote Inter Fallopian Transfer
(B) ICSI	(2) Gamete Intra Fallopian Transfer
(C) GIFT	(3) Zygote Intra Fallopian Transfer
	(4) Inter Cytoplasmic Sperm Injection
	(5) Intra Cytoplasmic Sperm Injection

CODES :

	A	B	C	D
a)	1	2	5	
b)	3	5	2	
c)	1	2	4	
d)	2	3	4	

6. Match the following columns

Column-I	Column- II
(A) Pill	(1) Intra uterine device
(B) Condom	(2) Prevents ovulation
(C) Vasectomy	(3) Prevents sperms from reaching to cervix
(D) Cu-T	(4) Semen contains no sperms

CODES :

	A	B	C	D
a)	1	2	4	3
b)	2	3	4	1
c)	2	3	4	1
d)	4	3	2	1

7. Given below are four methods (a-d) and their modes of action (i-iv) in achieving contraception. Select their correct matching from the four options that follow

Column-I	Column- II
(A) The pill	(p) Prevents sperms reaching cervix
(B) Condom	(q) Prevents implantation

(C) Vasectomy

(r) Prevents ovulation

(D) Copper T

(s) Semen contains no sperms

CODES :

	A	B	C	D
a)	iii	iv	i	ii
b)	ii	iii	i	iv
c)	iii	i	iv	ii
d)	iv	i	ii	iii

8. Match the following columns.

Column-I

Column- II

(A) Government of India legalized MTP in

(1) 1951

(B) Family planning introduced in

(2) 1971

(C) Lactational - Amenorrhoea

(3) Natural contraceptive

(D) IUD

(4) Progesterone

(E) Pill

(5) Cu-T

CODES :

	A	B	C	D	E
a)	1	2	3	4	5
b)	2	1	3	5	5
c)	4	3	2	1	5
d)	5	4	3	2	5

9. Match the following columns

Column-I

Column- II

(A) Chancroid

(1) *Haemophilus ducreyi*

(B) Genital warts

(2) Human papilloma Virus (HPV)

(C) Hepatitis-B

(3) Hepatitis-B virus

(D) Hepatitis-C

(4) Hepatitis-C virus

(E) AIDS

(5) Human immunodeficiency virus (HIV)

CODES :

	A	B	C	D	E
a)	1	3	2	4	5
b)	1	2	3	4	5
c)	5	4	2	3	5
d)	5	4	3	2	5

BIOLOGY (QUESTION BANK)

4.REPRODUCTIVE HEALTH

: ANSWER KEY :

- | | | | | | | | | | |
|----|---|----|---|----|---|----|---|----|---|
| 1) | c | 2) | c | 3) | d | 4) | d | 9) | b |
| 5) | b | 6) | b | 7) | c | 8) | a | | |

BIOLOGY (QUESTION BANK)

4.REPRODUCTIVE HEALTH

: HINTS AND SOLUTIONS :

- 1 (c)
The IUCD mechanism of action is not completely understood, although most evidences suggest that the presence of this foreign object in the uterus induces a local infammatory response that prevents implantation of a fertilized ovum. Though the IUCD is a convenient birth control method but it is no longer as popular as it was once because of reported complications associated with its use. The most serious of which are pelvic inflammatory disease, permanent infertility and uterine perforation. Today's IUCD devices are much safer than the earlier ones, making these complications rare.
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
- 2 (c)
STD
Chalmydiasis – *Chlamydia trachomatis*
Gonorrhoea – *Neisseria gonorrhoeae*
Trichomoniasis – *Trichomonas vaginalis*
Genital herpes – Herpes simplex virus
Syphilis – *Treponema pallidum*
- 3 (d)
Methods of Birth Control Devices Used
- Barrier – Condoms and cervical caps
IUD – Copper-T
Surgical technique – Vasectomy tubectomy
Administrating hormones – Oral pills and saheli
- 4 (d)
Hepatitis-B – Hepatitis-B virus
AIDS – Human Immunodeficiency Virus
Genital words – Human papilloma virus
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
- 5 (b)
ZIFT – Zygote Intra Fallopiian Transfer
ICSI – Intra Cytoplasmic Sperm Injection
GIFT – Gamete Intra Fallopiian Transfer
IVF – *In vitro* fertilisation
IUI – Intra Uterine Insemination
ICSI – Intra Cytoplasmic Sperm Injection
ZIFT – Zygote Intra Fallopiian Transfer
- 6 (b)
A-Pill – Prevents ovulation
B-Condom – Prevents sperms from reaching to cervix
C-Vasectomy – Semen contains no sperms
D-CU-T – Intra uterine Devices (IUDs)
In vasectomy male the semen have all the attributes except gametes (sperm)
- 8 (a)
Government of India legalized MTP in – 1971
Family planning introduced in – 1951

Lactational - Amenorrhoea - Natural
 contraceptive method
 IUD - Cu-T
 Pill -
 Progesterone

Scabies	<i>Sarcoptes scabies</i> (ectoparasite)
Candidiasis	<i>Candida albicans</i> (fungus)

Viral STDs are

Diseases	Pathogens
AIDS	- HIV (Human Immuno deficiency Virus)
Hepatitis-B	- HBV (Hepatitis-B Virus)
Genital herpes	- Herpes simplex virus
Genital warts	- HPV (Human Papilloma Virus)

First three are incurable

STD

Chalmydiosis	- <i>Chlamydia trachomatis</i>
Gonorrhoea	- <i>Neisseria gonorrhoeae</i>
Trichomoniasis	- <i>Trichomonas vaginalis</i>
Genital herpes	- Herpes simplex virus
Syphilis	- <i>Treponema pallidum</i>

9

(b)

Infectious Disease	Causative Agent
HIV/AIDS	Human Immuno deficiency Virus
Gonorrhoea	<i>Neisseria gonorrhoeae</i> (bacteria)
Syphilis	<i>Treponema pallidum</i> (bacteria)
Chlamydia	<i>Chlamydia trachomatis</i>
Genital herpes	Herpes simplex virus
Genital warts	Human Papilloma Virus
Hepatitis-B	Hepatitis-B virus
Trichomoniasis	<i>Trichomonas vaginalis</i> (protozoan)
Enterobiasis	<i>Enterobius vermicularis</i> (nematode)