RAVI (ONLY) MATHS TUITION CENTER, WHATSAPP - 8056206308

RAVI MATHS TUITION CENTER, WHATSAPP - 8056206308 NEET MODEL PAPER 24

12th Standard Biology

 $370 \times 1 = 370$

- 1) Which of the following is correct regarding HIV, hepatitis B, gonorrhoea and trichomoniasis?
- (a) Gonorrhoea is a STD whereas others are not.
- (b) Trichomoniasis is a viral disease whereas others are bacterial.
- (c) HIV is a pathogen whereas others are diseases.
- (d) Hepatitis B is eradicated completely whereas others are not.
- 2) Which one of the following groups includes sexually transmitted diseases caused by bacteria only?
- (a) Syphilis, gonorrhoea and candidiasis (b) Syphilis, chlamydiasis and gonorrhoea
- (c) Syphilis, gonorrhoea and trichomoniasis (d) Syphilis, trichomoniasis and pediculosis
- 3) Identify the correct statements from the following
- (a) Chlamydiasis is a viral disease
- (b) Gonorrhoea is caused by a spirochaete bacterium, Treponema palladium
- (c) The incubation period for syphilis is 2 to 14 days in males and 7 to 21 days in females
- (d) Both syphilis and gonorrhoea are easily cured with antibiotics
- 4) A contraceptive pill prevents ovulation by
- (a) blocking fallopian tube (b) inhibiting release of FSH and LH
- (c) stimulating release of FSH and LH (d) causing immediate degeneration of released ovum.
- 5) The approach which does not give the defined action of contraceptive is
- (a) Hormonal contraceptive-Prevents entry of sperms, prevent ovulation and fertilization
- (b) Vasectomy-Prevents spermatogenesis (c) Barrier method-Prevents fertilization
- (d) Intra uterine device-Increases phagocytosis of sperms, suppresses sperm motility and fertilizing capacity of sperms
- 6) Read the given statements and select the correct option.
- Statement I: Diaphragms, cervical caps and vaults are made of rubber and are inserted into the female reproductive tract to cover the cervix before coitus.
- Statement 2: They are chemical barriers of conception and are reusable.
- (a) Both statements 1 and 2 are correct and statement 2 is the correct explanation of statement 1.
- (b) Both statements 1 and 2 are correct but statement 2 is not the correct explanation of statement 1.
- (c) Statement 1 is correct but statement 2 is incorrect (d) Both statements 1 and 2 are incorrect
- 7) Match column I with column II and select the correct option from the codes given below.

Column I	Column II
A. Copper	(i) LNG-20
releasing IUD	(1) DIVG 20
B. Hormone	(ii) Lippes
releasing	loop ĪŪD
C. Non	(iii) Saheli
medicated IUD	(III) Sallell
	(iv)
D. Mini pills	Multiload-
	375

- (a) A-(iv), B-(ii), C-(i), D-(iii) (b) A-(iv), B-(i), C-(iii), D-(ii) (c) A-(i), B-(iv), C-(ii), D-(iii)
- (d) A-(iv), B-(i), C-(ii), D-(iii)
- 8) Select the incorrect action of hormonal contraceptive pills from the following
 - (a) Inhibition of spermatogenesis. (b) Inhibition of ovulation
 - (c) Changes in cervical mucus impairing its ability to allow passage and transport of sperms
 - (d) Alteration in uterine endometrium to make it unsuitable for implantation
- 9) Haemophilia is more common in males because it is a
- (a) Recessive character carried by Y-chromosome (b) Dominant character carried by Y-chromosome
- (c) Dominant trait carried by X-chromosome (d) Recessive trait carried by X-chromosome
- 10) ABO blood group in man is controlled by
- (a) Multiple alleles (b) Lethal genes (c) Sex linked genes (d) Y-linked genes
- 11) Three children of a family have blood groups A, AB and B. What could be the genotypes of their parents?
- (a) I^A I^B and I^OI^O (b) I^A I^O and I^BI^O (c) I^B I^B and I^A I^A (d) I^A I^A and I^OI^O

RAVI (ONLY) MATHS TUITION CENTER, WHATSAPP - 8056206308 12) Which of the following is not correct? (a) Three or more alleles of a trait in the population are called multiple alleles (b) A normal gene undergoes mutations to form many alleles (c) Multiple alleles map at different loci of a chromosome (d) A diploid organism has only two alleles out of many in the population 13) Which of the following phenotypes in the progeny are possible from the parental combination AxB? (a) A and B only (b) A,B and AB only (c) AB only (d) A, B, AB and O 14) Which of the following phenotypes is not possible in the progeny of the parental genotypic combination IAIO x IAIB? (a) AB (b) O (c) A (d) B 15) Which of the following is true about Rh factor in the offspring of a parental combination DdxDd (both Rh positive)?

(a) All will be Rh-positive (b) Half will be Rh positive (c) About ³/₄ will be Rh negative

17) If the childs blood group is 'O' and fathers blood group is 'A' and mother's blood group is 'B' the

(a) Male heterogamety (b) Female heterogamety (c) Male homogamety (d) Both (b) and (c)

(a) All carrier daughters and normal sons (b) 50% carrier daughters, 50% normal daughters

(a) Small uterus (b) Rudimentary ovaries (c) Underdeveloped breasts (d) All of these

26) "Universal Donor" and "Universal Recipients" blood group are ____and____respectively

(a) It occurs in birds and some reptiles (b) Females are homogametic and males are heterogametic

30) Mangolism is a genetic disorder which is caused by the presence of an extra chromosome number

32) The A and B genes are 10 cm apart on a chromosome. If an AB/ab heterozygote is testcrossed to

(a) 25 AB, 25 ab, 25 Ab, 25 aB (b) 10 AB, 10 ab (c) 45 AB, 45 ab (d) 45 AB, 45 ab, 5 Ab, 5 aB

29) Which of the following is incorrect regarding ZW-ZZ type of sex determination?

ab/ab, how many of each progeny class would you expect out of 100 total progeny?

22) Down's syndrome is a genetic disorder which is caused by the presence of an extra chromosome

(a) 'O' and Rh negative (b) 'O' and Rh positive (c) 'B' and Rh negative (d) 'AB' and Rh positive

19) In an accident there is great loss of blood and there is no time to analyse the blood group which blood

20) Father of a child is colourblind and mother is carrier for colourblindness, the probability of the child

16) What can be the blood group of offspring when both parents have AB blood group?

18) XO type of sex determination and XY type of sex determination are examples of

(a) AB only (b) A, B and AB (c) A, B, AB and O (d) A and B only

(a) $I^A I^A$ and $I^B I^O$ (b) $I^A I^O$ and $I^B I^O$ (c) $I^A I^O$ and $I^O I^O$ (d) $I^O I^O$ and $I^B I^D$

21) A marriage between a colourblind man and a normal woman produces

(c) 50% colourblind sons, 50% normal sons (d) All carrier offsprings

(a) 13-Trisomy (b) 18-Trisormy (c) 21-Trisormy (d) None of these

(c) Male produce one type of gamete (d) It occurs in gypsy moth

(a) Six different genomes (b) Six copies of three different genomes

(c) Two copies of three different genomes (d) Six copies of one genome

23) Klinefelters syndrome is characterized by a karyotype of

(d) About one fourth will be Rh negative

(a) 25% (b) 50% (c) 100% (d) 75%

genotype of the parents will be

can be safely transferred?

(a) 20 (b) 21 (c) 4 (d) 23

28) Co-dominant blood group is

(a) 20 (b) 21 (c) 4 (d) 23

31) An allohexaploidy contains

(a) A (b) AB (c) B (d) O

(a) XYY (b) XO (c) XXX (d) XXY

24) Females with Turners syndrome have

25) Pataus syndrome is also referred to as

(a) AB, O (b) O, AB (c) A, B (d) B, A

27) ZW-ZZ system of sex determination occurs in

(a) Fishes (b) Reptiles (c) Birds (d) All of these

being colourblind is

number

RAVI (ONLY) MATHS TUITION CENTER, WHATSAPP - 8056206308 33) Match list I with list II list II List I A. A pair of chromosomes extra with i) monosomy diploid B. One chromosome ii) tetrasomy extra to the diploid C. One chromosome iii) trisomy loses from diploid D.Two individual iv) double chromosomes lose from monosomy diploid (a) A-i, B-iii, C-ii, D-iv (b) A-ii, B-iii, C-iv, D-i (c) A-ii, B-iii, C-i, D-iv (d) A-iii, B-ii, C-i, D-iv 34) Which of the following sentences are correct? 1. The offspring exhibit only parental combinations due to incomplete linkage 2. The linked genes exhibit some crossing over in complete linkage 3. The separation of two linked genes are possible in incomplete linkage 4. Crossing over is absent in complete linkage (a) 1 and 2 (b) 2 and 3 (c) 3 and 4 (d) 1 and 4 35) Accurate mapping of genes can be done by three point test cross because increases (a) Possibility of single cross over (b) Possibility of double cross over

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52) The incubation period for can be more than 10 years.
(a) HPV (b) HBV (c) Treponema (d) HIV
53) PAP smear can help to detect
(a) Jaundice (b) Cancer (c) AIDS (d) Hepatitis B
54) vaccination of girls between 9-13 years can prevent cervical cancer.
(a) HIV (b) HPV (c) MMR (d) HBV 55) Mayor Politically syndrome is a condition in which
55) Mayer - Rokitansky syndrome is a condition in which (a) Over are not produced. (b) Overige are not formed. (c) Utoma is not functioning.
(a) Ova are not produced (b) Ovaries are not formed (c) Uterus is not functioning (d) Fallopian tube is ruptured
56) Test tube baby is got by technique.
(a) IUI (b) CVS (c) ICSI (d) IVF
57) Cryopreservation of embryos are done when
(a) When eggs are not available (b) Sperm count is less
(c) More embryos are available than the required (d) there is abnormality in the embryo
58) One sperm directly injected into cytoplasm of the egg in technique.
(a) ICSI (b) GIFT (c) IUT (d) TCSE
59) involves taking a sample of placental tissues to test for chromosomal abnormalities
(a) CVS (b) ICSI (c) TESE (d) IVF 60) is needed for normal functioning of reproductive structures
(a) Vitamin A (b) Vitamin E (c) Vitamin B (d) Vitamin C
61) is observed as world population day
(a) 11th June (b) 11th April (c) 11th July (d) 11th May
62) International diseases refer to
(a) Syphilis and AIDS (b) AIDS and Gonorrhoea (c) AIDS and Hepatitis B
(d) Syphilis and Gonorrhoea
63) Most of the intrauterine transfer of embryo is done at stage
(a) 8 celled (b) 16 celled (c) 32 celled (d) 4 celled
64) is an epidemic disease.
(a) HPV (b) HIV (c) Cervical cancer (d) Jaundice
65) In India, Family Planning Programme was introduced in (a) 1941 (b) 1951 (c) 1961 (d) 1971
66) Expansion of the RCH is
(a) Reproduction and Children Health Programme (b) Reproductive arid Child's Health Committee
(c) Reproduction and Critical Health Care (d) Reproductive and Child Health Care
67) One of the following prevents sperm from heading off to penis as the discharge has no sperms in it.
(a) Tubectomy (b) LNG - 20 (c) Vasectomy (d) Cu T 380 Ag
68) This is not Major task of RCH.
(a) Vaccinating the mother and child for infectious diseases (b) Introducing six education in Schools
(c) Educating couples about the available with control
(d) Creating awareness about care for pregnant Women
69) All the following aims at creating a safe and secure environment for both females and males. Except (a) Sexual Harassment at work place Act (b) POCSO Act
(c) Recommendation of Iustice Verma Committee, 2013 (d) PCPNDT
70) This is an ideal contraceptive for females who want to delay pregnancy
(a) Oral contraceptives (b) IUDs (c) Diaphragms, cervical caps (d) Vaults
71) At which stage the embryo is transferred into the uterus.
(a) 4 celled stage (b) 8 celled stage (c) 12 celled stage (d) 16 celled stage
72) This technique is used to diagnose the chromosomal abnormities.
(a) Assisted Reproductive Technology (ART) (b) Micro Testicular Sperm Extraction (c) Amniocentesis
(d) GIFT
73) Identify the bacterial STI (a) Concerbose (b) Symbilia (c) Chlonydiania (d) all the above
(a) Gonorrhoea (b) Syphilis (c) Chlanydiasis (d) all the above 74) An abnormal foetal heart beat rate or pattern indicates the foetus is not getting enough
(a) Nutrients (b) Oxygen (c) Blood (d) Signals
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RAVI (ONLY) MATHS TUITION CENTER, WHATSAPP - 8056206308 75) Fatigue, jaundice, fever, rash, stomach pain, liver Cirrhosis and liver failure - are the symptoms of (a) Chalmydiasis (b) Lynphogvanuloma Veneveum (c) Hepatitis (d) Syphilis 76) In this Assisted Reproductive Technology (ART), the sperms and egg are allowed to united outside the body and then transformed into the woman's uterus. (a) Intra - uterine insemination (IUI) (b) In vitro Fertilization (IVF) (c) Zygote Intra - Fallopian Transfer (ZIFT) (d) Intra uterine transfer (IUT) 77) Cervical Cancer can be diagnosed by X combined with Y test, but the stage of Cancer is determined by \underline{Z} (a) HPVPAP SmearPET Scan PAP SmearHPVPET Scan MRICT ScanMRI PET ScanX-RayCT Scan 78) Prevention of children from sexual offences is covered under _____ act (a) PCPNDT (b) patent act (c) ART (d) POCSO 79) ____ can be diagnosed by PAP smear test. (a) Cervical cancer (b) Bone cancer (c) Blood cancer (d) Intestinal cancer 80) _____ is a prenatal technique to detect chromosomal abnormalities in the foetus (a) Amniocentesis (b) PSA test (Prostate Specific Antigens Test) (c) PAP test (d) PT test (Prothrombin Time Test) 81) The problem of overpopulation can be overcome by _____ (a) awareness program (b) free education (c) Birth control (d) meals scheme 82) Foaming tablets and jellies are _____ barriers for birth control. (a) mechanical (b) Chemical (c) hormonal (d) natural 83) Oral contraceptive pills contain synthetic ____ and hormones (a) androgen and testosterone (b) Androgen and Oxytocin (c) relaxin and inhibin (d) Progesterone and estrogen 84) ____ is an example of a contraceptive pill. (a) Alesse (b) Ortho Tri-cyclen (c) Saheli (d) Eryosterol 85) IUD's increase _____ of the sperm within the uterus. (a) Endocytosis (b) Pinocytosis (c) Phagocytosis (d) Exocytosis 86) The _____ method of contraception has a success rate of 95 - 99% in India. (a) IUDs Intra-uterine devices (b) Hormonal (c) Chemical (d) mechanical 87) Diseases like _____ are transmitted sexually and by sharing of needless (a) gonorrhoea (b) genital herpes (c) AIDS/Hepatitis - B (d) candidiasis 88) _____ is a sexually transmitted diseases caused by protozoan (a) Trichomoniasis (b) Genital warts (c) Syphilis (d) Candidiasis 89) _____ is a sexually transmitted disease caused by a fungus (a) Chlamydiasis (b) Candidiasis (c) Genital herps (d) Syphilis 90) _____ is a cause of infertility in women. (a) varicocoele (b) Endometriosis/Uterine fibroids (c) well developed ovaries (d) hormonal balance 91) ____ is a procedure to treat infertile man with low sperm count (a) Intra-uterine insemination (b) In vitro fertilization (c) Intra-uterine transfer (d) Zygote intra-fallopian transfer 92) _____ is a method for preservation of embryos (a) Mechanical preservation (b) Chemical preservation (c) Cryopreservation (d) Heat preservation is a condition in which there is absence of spermatozoa in the ejaculate serum (a) teratozoospermia (b) Asthenozoospermia (c) Oligozoospermia (d) Azoospermia 94) Coitus can be avoided on the 14th day of the menstrual cycle to prevent fertilization, because _ takes place on that day. (a) Lactation (b) Ovulation (c) Sperms are more active (d) Uterus is ready for implantation 95) _____ is a method used to detect foetal diseases during early pregnancy (a) CT scanning (b) MRI scanning (c) Ultrasound scanning (d) PET scanning 96) Usage of ____ greatly reduces the risk of STI. (a) IUDS (b) Latex Condoms (c) Saheli (d) Lippes loop 97) Which of the following is a hormone releasing Intrauterine Device (IUD)? (a) Multi load 375 (b) LNG - 20 (c) Cervical cap (d) Vault

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98) Assisted reproductive technology, IVF involves the transfer of
(a) Ovum into the fallopian tube (b) Zygote into the falloptan tube (c) Zygote into the uterus
(d) Embryo with 16 blastomeres into the fallopian tube
99) In context of amniocentesis, which of the following statements is incorrect?
(a) It is usually done when a woman is between 14-16 weeks pregnant
(b) It is used for prenatal sex determination (c) It can be used for detection of Down syndrome
(d) It can be used for detection of cleft palate
100) Which of the following approach does not give the defined action of contraceptive? (a)
a) Barrier methods Prevent fertilizers
(b)
b) Intra uterine Increases phagocytosis of sperms suppresses sperm motility and fertilizing capacity of sperms.
(c)
c) Hormonal contraceptives Prevent retard entry of sperms, prevent ovulation and fertilization.
(d) d) VasectomyPrevents spermatogenesis
101) Which of the following is Not a natural contraceptive?
(a) Rhythm method (b) Lactational amenorrhoea (c) Progestasert (d) Continuous abstinence
102) Identify the fungal STD(s)
(i) Trichomoniasis (ii) Genital herps
(iii) Candidiasis
(iv) Genital warts
(a) Only(i) (b) Only (iii) (c) Only (iv) (d) Both (ii) and (iv)
103) Pick out the incorrect statement regarding the character of an good contraceptive. (a) It should be user friendly (b) should not affect sexual drive (c) side effects must be least
(d) should not be easily available
104) Identify the mismatched pair.
(a) Syphilis - Treponema palladium (b) Lymphogranuloma venereum - Chlamydia trachomatis
(c) Candidias - Albugo candida (d) Genital warts - Human Papilloma virus
105) Legalized marriageable age of female in India is
(a) 19 years (b) 20 years (c) 18 years (d) 21 years
106) Identify the correct statement.
(a) Lactational amenorrhea is a permanent birth control method (b) Condoms are made of polyethylene glycol and lambskin (c) LNG -20 is a copper-releasing IUD
(d) Diaphragm covers the cervix there by preventing sperm entry
107) According to WHO, India is the largest HIV affected country.
(a) first (b) second (c) third (d) seventh
108) Identify the correct statement.
(a) MTP is the voluntary killing of infant (b) MTP is legalized in India from 1974
(c) Performing MTP during second trimester is more risky. (d) It is a surgical- based abortion.
109) In chorionic villus sampling test, the tissue sample is taken from
(a) amniotic fluid (b) placental tissue (c) Intestinal villi (d) foetal liver
110) Given below are the basic steps in IVF treatment cycle. Select the proper sequence. (i) Ovarian stimulation
(ii) Egg retrieval
(iii) fertilization (iv) Embryo, culture
(v) Embryo transfer
(a) (ii) - (iv) - (v) - (i) - (iii) (b) (i) - (iii) - (ii) - (v) - (iv) (c) (i) - (ii) - (iv) - (v)
(d) (ii) - (i) - (iii) - (v) - (iv) 111) Enactment of banned the identification of sex and to prevent the prenatal abortion
(a) POCSO Act (b) POTA Act (c) PCPNDT Act (d) GOONDA Act
112) Which is NOT a national health care programme?
(a) Pradhan Mantri Surakshit Matritva Abhiyan (b) Pradhan Mantri Fiscal Bhima Yojana
(c) RMNCH +A approach (d) Janani Shishu Suraksha Karyakaram
113) Which one of the following is not a step in IVF treatment?
(a) Testes stimulation (b) Ovarian stimulation (c) Egg retrieval (d) Fertilization and embryo culture

RAVI (ONLY) MATHS TUTTION CENTER, WHATSAPP - 8056206308 114) An IUCD is (a) Copper -T (b) Condom (c) Vasectomy (d) pill 115) Contraceptive oral pills help in birth control by (a) Killing of ova (b) Preventing ovulation (c) Killing the sperms (d) Forming barrier between sperms and ova 116) MTP is (a) Multi Trade Practices (b) Malthusian Treatise on Population (c) Multiple Temporary Frequency (d) Medical Termination of Pregnancy 117) A method of sterilisation is

(a) Checking ovulation (b) Preventing fertilization (c) Preventing implantation of zygote

(a) Termination of the unwanted pregnancy (b) Sterilisation techniques (c) Rhythm method

(a) both males and females (b) males only (c) females only (d) only pregnant

(a) IUDCB (b) Diaphragm (c) Vasectomy (d) Loop

118) Progesterone present in contracept pill is meant for

119) Tubectomy is a method of population control is performed on

(a) Oral pill (b) Tubectomy (c) Vasectomy (d) None of the above

(a) Hereditary abnormality in embryo (b) Cardiac aliments of embryo

123) Which of the following is a mechanical barrier used in birth control?

125) In human females, menstruation can be referred by administration of

(a) FSH and LH (b) Estrogen and progesterone (c) FSH only (d) LH only

(a) Zygote or embryo upto 8 celled stage (b) 32 celled stage (c) Zygote only

129) Saheli, a new oral contraceptive for females developed by Indian scientists is a

(a) Steroidal preparation (b) Hormonal preparation (c) Non - steroidal preparation

130) Which one is the most widely accepted method of contraception presently in India?

(a) Motile sperms (b) Oligospermia (c) Teratozoospermia (d) Asthenozoospermia

(c) Mixture of sperms and ova into fallopian tube (d) Mixture of sperms and ova into uterus

133) Urino genital track infection in males accompanied by yellow discharge, burning feeling on passing

(d) Syphilis

135) Sexually transmitted diseases affecting both male and female genitals which often can rage eyes of

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(c) Errors in amino acid metabolism in embryo (d) All the above

(a) Copper T (b) Diaphragm (c) Loop (d) Dalcon shelid

(a) Copper T (b) progestasert (c) Lippes loop (d) LNG-20

(a) Diaphragm (b) IUDS (c) Cervical caps (d) Tubectomy

(a) Intra cytoplasmic sperm injection (b) Gamete intra fallopian transfer

(c) Intra uterine insemination (d) Zygote intra fallopian transfer

(a) Zygote into fallopian tube (b) Embryo into uterus

(a) Syphilis (b) Gonorrhoea (c) Hepatitis (d) AIDS

128) Most effective contraceptive method for ladies is

(a) Rhythm method (b) ECP (c) MTP (d) Cu-T

124) Which one is the safest method of birth control?

126) IVF involves transfer into fallopian tube of

(d) Embryo only upto 8 celled stage

(d) Toxic preparation to kill sperms

132) Test tube baby programme involves

(a) AIDS (b) Gonorrhoea (c) Hepatitis B

134) Which is not a cause of male infertility?

131) ZIFT is transfer of

urine, fever and headache is

babies born to infected mothers

127) The non medicated IUD is

(d) Preventing cleavage

120) Which is related to males?

121) A method of birth control is

(d) Use of physical barriers

(a) GIFT (b) HJF (c) IVF-ET (d) IUDS

122) Amniocentesis is employed for determining

RAVI (ONLY) MATHS TUITION CENTER, WHATSAPP - 8056206308 136) Induced abortion is (a) IUD (b) PID (c) MTP (d) STD 137) Which is common match of amniotic fluid test? (a) IVF (b) ZIP (c) GIFT (d) None of them 138) The appearance of chance rashes all over if body arc symptoms of (a) Gonorrhoea (b) AIDS (c) Syphilis (d) Fever

142) A childrens couple can be assisted to have a child through a technique called GIFT the full from

(a) adapted for MTP (b) of birth control (c) for foetal sex determination (d) used for safe parturition

(a) Secretion of milk from breast (b) Conception (c) Secretion of prolactin (d) Spermatogenesis

(a) Irreversible sterility (b) No sperm occurs in seminal fluid (c) No sperm occurs in epididymis

(a) (i) - A, (ii) - B, (iii) - D (iv) - C (b) (i) - B, (ii) - C, (iii) - D (iv) - A (c) (i) - C, (ii) - D, (iii) - A (iv) - B

149) Embryo with more than 16 blastomeres formed due in vitro fertilization is transferred into

(a) They suppress the ovulation (b) They can remain in the uterus for more than 20 years (c) They suppress sperm motility (d) They suppress ferlitlization and conduction of zygote

(c) Gamete internal fertilization and transfer (d) Germ cell internal fertilization and transfer

139) Which contraceptive device makes uterus unsuited for implantation?

141) After tubectomy which part of female reproductive system remains blocked

(a) Gamete inseminated fallopian transfer (b) Gamete intra fallopian transfer

143) Transfer of an ovum of a donor into fallopian tube of a surrogate mother is

(a) Coitus interruptus (b) Rhythm method (c) Tubectomy (d) Vasectomy

(a) Medical terminal of pregnancy (b) Coitus interrupts (c) Intrauterine insemination

(a) Progestasert (b) CUT (c) Cipple's loop (d) Multiload

(a) Cervix (b) Uterine cavity (c) Ovary (d) Fallopian tube

140) Which is hormonal method of birth control?

(a) Pill (b) IUD (c) Vasectomy (d) Femdom

(a) ET (b) IUT (c) GIFT (d) ZIFT

144) Aminocentesis is one of the methods

145) Lactational amenorrhoea prevernts

147) Lactational amenorrhoea means

(d) vasa deferentia cut and tied

(i) Gonorrhoea

(ii) Syphilis

(iii) Genital

(iv) Hepatitis -

warts

146) Sterilisation procedure in human female is

148) Which is incorrect regarding vasectomy?

(d) Absence of menstruation during intense lactation.

(a) Cervix (b) Uterus (c) Fallopian tube (d) Timbriae

151) Match the following and find the correct answer

(A) 10 - 90

(D) 2 - 5 days

days (B) 1 - 8

days

(d) (i) - D, (ii) - C, (iii) - B (iv) - A

155) Oligospermia is caused by

months (C) 30 - 80

150) Which one of the following is true regarding copper releasing IUDs?

152) Which one of the following is not true regarding cervical cancer?

(c) Preventing early marriage (d) Practicing polygamy

(a) Male (b) Female (c) Gynandromorphs (d) Super male

154) Which one of the following is not a cause for infertility?

(a) Primary prevention begins with HPV vaccination (b) Avoiding tobacco usage

153) What is the sex of **Drosophila**, which contains 12 autosomes and 3 'X' Chromosomes?

(a) Varicocele (b) High body fat (c) Ingestion of cadmium (d) Tight clothing in man

(a) Alcoholism (b) STD (c) Damage to prostate on seminal vesicles (d) All the above

on this technique is

RAVI (ONLY) MATHS TUITION CENTER, WHATSAPP - 8056206308 156) Match and find the correct option: Prevents sperms reach Contraceptive in female reproductive pill track Inhibits ovulation and condom implantation Increases phagocytosis vasectomy of sperms blocks gamete copper T transport (a) a-iv, b-i, c-ii, d-iii (b) a-ii, b-i, c-iv, d-iii (c) a-i b-ii, c-iii, d-iv (d) a-ii, b-i, c-iii, d-iv 157) Assisted reproductive technology does not include (a) Gamete intrafallopian transfer (b) Artificial insemination (c) In vitro fertilizatior embryo transfer (d) Zygote extra fallopian transfer 158) Amniocentesis can diagnosis which of the following defects (i) Trisomy (ii) Neural tube defects (iii) Infection (iv) Lung maturity (a) i, ii and iii (b) i, ii and iv (c) ii, iii and iv (d) i, ii, iii and iv 159) In which assisted reproductive technology (ART) test tube baby procedure is applied (a) Gamete intrafallopian transfer (b) Intra cytoplasmic sperm injection (c) Invitro fertilisation and embryo transfer (d) Zygote intrafallopian transfer 160) Which of the following statement is wrong? (a) Test tube baby begins growth inside test tube (b) Test tube baby grows within mothers womb (c) Test tube baby grows within surrogate mother's womb (d) Test tube baby grows following uterine 161) A sterilisation technique is (a) Loop (b) Diaphragm (c) Tubectomy (d) Cervical cap 162) Most important component of oral contraception is (a) Thyroxine (b) LH (c) Progesterone (d) GH 163) Match the following and final the correct combination. Hhuman Syphilis papilloma virus Genital HBVwarts Treponema Hepatitis-B pallidum Gonorrhoea HSV Neisseria (a) a -ii, b-i, c-iv, d-v (b) a-iii, b-i, c-iv, d-v (c) a-iii, b-i, c-ii, d-v (d) a-ii, b-iii, c-iv, d-i 164) Select the proper hormonal composition of oral contraceptive pills (a) FSH & Prolactin (b) Prolactin & TSH (c) TSH & FSH (d) FSH & LH 165) Find out the incorrect pair. (a) Neisseria gonorrhoeae - Affects urethra (b) Hepatitis B virus - Liver cirrhosis (c) HIV - Enlarged lymph (d) Candida albicans - Inflammation of heart 166) The permanent birth control method in males is: (a) Appendictomy (b) Vasectomy (c) Oral contraceptives (d) Tubectomy 167) Who is the founder of Modern Eugenics movement? (a) Mendel (b) Darwin (c) Francis Galton (d) Karl pearson 168) Improvement of human race by encouraging the healthy persons to marry early and produce large number of children is called

(a) Positive eugenics (b) Negative eugenics (c) Positive euthenics (d) Positive euphenics

169) The _____deals with the control of several inherited human diseases especially inborn errors of metabolism

(a) Euphenics (b) Eugenics (c) Euthenics (d) All of these 170) The blood group _____ is called universal donor.

(a) A (b) AB (c) B (d) O

171) The blood group _____ is called universal recipient.

(a) O (b) AB (c) B (d) A

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172) The ABO blood group was discovered by
(a) Sturli (b) Decastelle (c) Landsteiner (d) Alexander wiener
173) The inheritance of blood group is determined by multiple alleles as discovered by
(a) Landsteiner (b) Bernstein (c) Alexander castelle (d) lyon
174) The is called null allele.
(a) I^A (b) I^OI^B (c) I^O (d) I^BI^B
175) The secretors have the I allele in (a) tears (b) Gastric juice (c) Saliva (d) All of these
176) proposed the existence of 8 alleles at a single Rh locus.
(a) Fischer (b) Landsteiner (c) Bernstein (d) Wiener
177) XX - XO type of sex determination is in
(a) Cockroaches (b) Drosophila (c) Humans (d) Moths
178) The lygaeus type (XX - XY) type of sex determination is seen in
(a) Fishes (b) Chickens (c) Human beings (d) Gypsy moth
179) The ZO - ZZ type of sex determination is seen is
(a) moths (b) Reptiles (c) Human beings (d) Bugs
180) The ZW - ZZ type of sex determination is seen
(a) Butterflies (b) Drosophila (c) Gypsy moth (d) Human being 181) Sex index is applicable to
(a) Homogenetic condition (b) Heterogametic condition (c) Genic balance (d) Gynandromorphs
182) X chromosomes was discovered by
(a) Landsteiner (b) Henking (c) Stevens (d) Bridges
183) Y chromosomes was discovered by
(a) Stevens (b) Landsteiner (c) Henking (d) Wiener
184) was first reported by John Cotto.
(a) Erythroblastosis foetalis (b) Haemophilia (c) Colour blindness (d) Haplodiploidy
185) Scientists who contributed to karyotyping
(a) Tjio and Levan (b) John Cotto (c) Bridges (d) Wiener 186) Depending on position of centromere and relative length of two arms human chromosomes can be classified into type.
(a) 2 (b) 3 (c) 4 (d) 5
187) are examples of mendelian disorders.
(a) Thalassemia (b) Albinism (c) Phenylketonuria (d) Haemophilia
188) is a disease where abnormal haemoglobin is produced in patients.
(a) Phenylketonuria (b) Huntington's chorea (c) Thalassemia (d) Albinism
189) Phenylketonuria is linked to chromosome
(a) 9 (b) 10 (c) 12 (d) 8 190) Cooley's anaemia refers to
(a) Phenylketonuria (b) Haemophilia (c) Thalassemia (d) Turner's sundrome
191) The gene responsible for is inherited as an autosomal recessive lethal gene in man
(a) Huntington's chorea (b) Albinism (c) Colourblindness (d) Phenylketonuria
192) is an inborn error of metabolism caused due to autosomal recessive gene.
(a) Thalassemia (b) Albinism (c) Phenylketonuria (d) Huntington's chorea
193) Trisomy 21 refers to
(a) Patau's syndrome (b) Down's syndrome (c) Kline filters syndrome (d) Turners syndrome
194) Patau's syndrome is called
(a) Trisomy - 21 (b) Trisomy - 13 (c) xxy males (d) xo females 195) People with have 45 chromosomes.
(a) Turner's syndrome (b) Klinefelter's syndrome (c) Down's syndrome (d) Patau's syndrome
196) Incompatibility of blood groups leading to, dumping of erythrocytes is called
(a) agglutination (b) non-agglutination (c) Inhibition (d) repolarization
197) One gene 'L' controlling blood groups is named after
(a) c. B. Bridges (b) Henking (c) Landsteiner (d) Stevens

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198) The allele I ^o is called
(a) Dominant allele (b) multiple allele (c) null allele (d) epistatic allele $^{\rm I}$ and $^{\rm B}$ are
(a) Hypostatic (b) Co-dominant (c) Recessive (d) Epistatic
200) Individuals who possess the I antigens related to gene I in body fluids are called
(a) secretors (b) enzymes (c) Lymph fluids (d) hormones
201) Rh factor was discovered in the blood of
(a) Frog (b) Carp (c) Rhesus monkey (d) Calotes
202) Incompatibility of Rh factor can lead to in a pregnant woman.
(a) Haemophilia (b) Sickle cell anaemia (c) Aplastic anaemia (d) erythroblastosis foetalis 203) The XX - XY type of sex determination is also known as type.
(a) Haploid - diploid (b) Lygaeus (c) Gynandromorphs (d) Genic balance
204) In gypsy moth we find type of sex determination.
(a) ZW - ZZ (b) XX - XY (c) XX - XO (d) ZO - ZZ
205) Genic balance mechanism was first studied by
(a) John Cotto (b) C. B. Bridges (c) Bernstein (d) Wiener
206) Sex switch genes have been reported in
(a) Grasshopper (b) Cockroach (c) Wasp (d) Drosophila
207) In the tissues of male and female genotype type form a mosaic
(a) llaplo-diploidy (b) Gynandromorphy (c) Genic balance (d) Lygaeus type 208) Sex chromatin is also called as
(a) polar body (b) nucleus (c) nucleolus (d) Barr body
209) The number of Barr bodies follows
(a) N-0 Rule (b) N-3 rule (c) N-1 rule (d) N-2 rule
210) Kin selection is seen in
(a) Honey bees (b) Drosophila (c) Grasshopper (d) Cockroach 211) The fruit fly Drosophila melanogaster was found to be very suitable for experimental verification of chromosomal theory of inheritance by Morgan and his colleagues because
(a) It reproduces parthenogenetically (b) A single mating produces two young flies (c) Smaller female is easily recognizable from largemale
(d) It completes the life cycle in about'two weeks
212) Which one of the following cannot be explained on the basis of Menders Law of Dominance?
(a) The discrete unit controlling a particular character is called a factor
(b) Out of one pair factors one is dominant and the other recessive
(c) Alleles do not show any blending and both the characters recover as such in F2 generation
(d) Factors occur in pairs
213) ABO blood groups in humans are controlled by the gene I, It has three alleles - IA, IB and i. Since there are three different alleles) six different genotypes are possible. How many phenotypes can occur? (a) Three (b) One (c) Four (d) Two
214) Which one of the following symbols and its representation, used in human pedigree analysis is
correct?
(a) \square = O Mating between relatives (b) O = Unaffected male (c) \square = Unaffected female
(d) \Diamond = Male affected
215) Which one of the following conditions correctly describes the manner of determining the sex in the given example?
(a) XO type of sex chromosomes determine male sex in grasshopper
(b) XO condition in humans as found in Turner syndrome, determines female sex
(c) Homozygous sex chromosomes (XX) produce male in Drosophila
(d) Homozygous sex chromosomes (ZZ) determine female sex in birds
216) A normal-visioned man whose father was blind marries a woman whose father was also colour blind. They have their first child as a daughter. What are the chances that this child would be colour blind?
(a) 100% (b) 0% (c) 25% (d) 50% 217) Which of the following statements is not true of two genes that show 50 per cent recombination frequency
(a) The genes may be on different chromosomes (b) The genes are tightly linked
(c) The genes show independent assortment (d) If the genes are present on the same chromosome
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218) A pleiotropic gene:
(a) Is a gene evolved during Pliocene (b) Controls a trait only in combination with another gene
(c) Controls multiple traits in an individual (d) Is expressed only in primitive plants 219) A gene showing codominance has:
(a) Alleles tightly linked on the same chromosome. (b) Alleles that are recessive to each other
(c) Both alleles independently expressed in the heterozygote (d) One allele dominant on the other
 220) Pick out the correct statements a) Haemophilia is a sex-linked recessive disease b) Down's syndrome is due to aneuploidy c) Phenylketonuria is an autosomal recessive gene disorder d) Sickle cell anaemia is an X-linked recessive gene disorder
(a) a) A and D are correct (b) Band D are correct (c) A, C and D are correct
(d) A, B and C are correct
221) If a colorblind female marries a normal male, their sons will be
(a) All normal visioned (b) All color blinded (c) One half normal visioned other half colorblind (d) Three fourth colorblind one fourth normal
222) Excess hair growth on pinna is a feature noticed only in males because of
(a) Males produce more testosterone
(b) gene responsible for the character is located in Y-chromosome
(c) Estrogen suppresses the character in females (d) females act only as a carriers for this character 223) ABO blood group is a classical example for
(a) Multiple allelism (b) Pleotropism (c) Incomplete dominance (d) Polygenic mechanism 224) Unit of heredity is
(a) allele (b) allelomorph (c) trait (d) gene
225) Identify the proper dominance hierarchy.
(a) $I^{A}=I^{O} > I^{B}$ (b) $I^{A}=I^{B} > O$ (c) $I^{O}=I^{B} > I^{A}$ (d) $I^{B}=I^{A} > O$
226) Identify the correct statement
(a) Homozygous sex chromosome (XX) produce males in Drosophila (b) Homozygous sex chromosome (ZZ) determine female sex in birds (c) Heterozygous sex chromosome (XO) determine male sex in grasshopper (d) Heterozygous sex chromosome (ZW) determine male sex in gypsy moth 227) Which blood group doesn't possess antibodies?
(a) $I^{A}I^{B}$ (b) $I^{O}I^{O}$ (c) I^{AO} (d) $I^{B}I^{B}$
228) Assertion (A): On diagnosis, Ramu is reported to have underdeveloped testis and gynaecomastia. Reason (R): His karyotype reveals XXY condition
(a) A is right but R is wrong (b) R explains A (c) Both A and R are wrong (d) Both and R are right but R is not the correct explanation of A 229) Pick out the odd man out.
(a) Klinefelter's syndrome (b) Turner's syndrome (c) Huntington's chorea (d) 13-Trisomy 230) Pick out the odd one out regarding Mendelian disorder.
(a) Thalassemia (b) phenylketonuria (c) Albinism (d) Huntington's chorea
231) Identify the proper ratio of normal visioned individuals against colorblind individuals, if colorblind carrier female marries a normal male.
(a) 1:1 (b) 3:1 (c) 1:3 (d) All four are normal visioned
232) Pick out the correct statement (i) Karyotyping helps in gender identification (ii) Holandric genes are located on X-chromosome (iii) Trisomy-21 is an allosomal abnormality (iv) Cooley's anaemia is an autosomal recessive disorder
(a) i, iii, iv are correct (b) ii and iii are correct (c) i and iv are correct (d) iv only correct 233) DOPA stands for
(a) 3,4 - dihydroxy phenyl acetate (b) 3,4 - dihydroxy phenyl alanine
(c) 3,4 - dihydroxy phenyl asparate (d) 3,4 - dihydroxy phenyl aldehyde
234) The type of antibody generated against Rh antigen is
(a) IgE (b) IgG (c) A (d) IgB 235) Which of the following symbol is used in pedigree analysis to represent unspecified sex?
(a) (b) (c) (d)
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RAVI (ONLY) MATHS TUITION CENTER, WHATSAPP - 8056206308 236) A colorblind man marries a woman with normal sight who has no history of color blindness in her family. What is the probability of their grandson being colorblind? (a) 1/4 (b) 3/4 (c) 2/4 (d) 4/4 237) Multiple alleles are located _____ (a) at different loci on homologous chromosome (b) at same locus on homologous chromosome (d) at different chromosomes (c) at different loci on non-homologous chromosome 238) Identify the incorrect statement regarding haplodiploidy (a) Haplodiploidy is noticed in honeybees and drosophila (b) Unfertilized eggs develop into drones (c) Fertilized eggs develop into queen and worker bees (d) Males have half the total chromosomal number 239) I^A and I^B genes of ABO blood group are _ (a) Co-dominant (b) Pleotropic (c) Dominant and recessive (d) Epistatic 240) Which one of the following crosses show 3: 1 ratio of normal visioned versus carrier blind? (a) $X^{C}X^{C} \times X+Y$ (b) $X+X^{C} \times X^{C}Y-$ (c) $X+X^{C} \times X+Y-$ (d) $X+X+\times X^{C}Y-$ 241) 21st trisomy is observed in (a) Down's syndrome (b) Patau's syndrome (c) Turner's syndrome (d) Klinefelter's syndrome 242) Father of genetics is (a) Morgan (b) Darwin (c) Mendel (d) Hutchinson 243) An organism with two unlike genes of a trait is called (a) Heterozygous (b) Homozygous (c) Hermaphrodite (d) Monozygous 244) In heritage of skin colour in man (a) Monogenic B (b) Bigenic (c) Trigenic (d) polygenic 245) A gamete contains (a) only one allele of a gene (b) two alleles of a gene (c) all alleles of a gene (d) none of the above 246) Human blood groups are determined by (a) single gene (b) two genes (c) alleles (d) multiple genes 247) An important example of pleiotropy is (a) bleeder's disease (b) small pox (c) sickle cell anaemia (d) none of the above 248) An organism with two identical alleles of a gene in a cell is called (a) hybrid (b) heterozygous (c) dominant (d) homozygous 249) When an individual possesses both alleles of contrasting characters it is called (a) Dioecious (b) Linked genes (c) Heterozygous (d) Homozygous 250) If a couple has three daughters, what are the chances that the fourth child will be a son (a) 100% (b) 75% (c) 50% (d) 0% 251) Which of the following is controlled by multiple alleles? (a) Sickle cell Anaemia (b) Colour blindness (c) Phenylketonuria (d) Blood groups 252) Inheritance of ABO group shows (a) Polygeny (b) Polyploidy (c) Multiple allelism (d) Incomplete dominance 253) The inheritance of two recessive alleles for the sickle cell trait is commonly (a) Lethal (b) Epistatic (c) Heterozygous (d) Homozygous 254) The number of chromosomes in drosophila melanogaster is (a) 6 (b) 8 (c) 10 (d) 12 255) Homosapiens has (a) 23 pairs of chromosomes (b) 24 pairs of chromosomes (c) 25 pairs of chromosomes (d) 26 pairs of chromosomes 256) The prokaryotic chromosomes are founds in (a) Bacillus (b) Nostoc (c) Escherichia (d) AII of the above 257) Extra chromosomal hereditary determinants are known as (a) Plastids (b) Ribosomes (c) Plasmids (d) None of the above 258) Eukaryotic chromosomes are found in (a) Cyanobacteria (b) Blue-Green algae (c) Fungi (d) None of the above 259) The term mutation was introduced by (a) Mendel (b) Hugo de Vries (c) Darwin (d) Lamarck

RAVI (ONLY) MATHS TUITION CENTER, WHATSAPP - 8056206308 260) Point mutations are caused by (a) Substitution (b) Deletion (c) Insertion (d) All of the above 261) Allosomes are (a) Mode like structures on chromosomes (b) Sex chromosome (c) Rounded bodies on chromosome (d) None of the above 262) Drosophila having one half of the body as male and the other half as female is called (a) Hermaphrodite (b) Androphore (c) Protandrous (d) Gynomorph 263) Mutation is (a) a change that inherited (b) a change, but not inherited (c) a factor responsible for plant growth (d) a change affecting F₂ generation only 264) H.J Muller was awarded Nobel Prize in 1946 for his work on (a) Human cancer (b) Mechanism of protein synthesis (c) Chemistry of nucleic acids (d) X-rays mutation in Drosophila 265) When the chromosome number is different than a multiple of basic chromosome number, it is called (a) Aneuploidy (b) Monoploidy (c) Diploidy (d) Polyploidy 266) Kappa particles indicate (a) Cytoplasmic inheritance (b) Nuclear inheritance (c) Nucleo-cytoplasmic inheritance (d) Mutations 267) Genes located on Y-chromosomes are called (a) Hobandric genes (b) Sex linked genes (c) Mutant genes (d) Autosomal genes 268) Barr body is derived from (a) Autosomes in males (b) Autosomes in females (c) X-chromosomes in males (d) X-chromosomes in females 269) Trisomic condition in Down's syndrome is mainly due to (a) Diploidy (b) non - disjunction (c) Translocation (d) triploidy 270) Limnaea peregra is a (a) freshwater snail (b) marine water snail (c) both a & b (d) none of the above 271) Which is not a gene linked disease? (a) Haemophilia (b) Daltonism (c) Myxodema (d) Alkaptonuria 272) Lyon's hypothesis is connected with (a) Number of barr bodies (b) Genetic compatibility (c) Genetic compatibility (d) Centromere position 273) Turners syndrome is represented by (a) XYY (b) XO (c) XXY (d) XXX 274) Male sterility was discovered by (a) Rhoades (b) Sonneborn (c) Bycottetal (d) Correns 275) Crytoplasmic inheritance differs from nuclear inheritance in the absence of (a) Similarity of reciprocal crossess (b) Biparental contribution (c) Effect on back crossing

- (d) All the above
- 276) Length of Y-chromosome is
- (a) 2.0 µm (b) 3.0 µm (c) 4.0 µm (d) 5.0 µm
- 277) In super male XXY is characterised by
- (a) Under production of sex hormones (b) Over production of sex hormones
- (c) Reduced intelligence but aggressive nature (d) Both b and c
- 278) A haemophilia man marries a homozygons normal woman What would be the possible condition to their children
- (a) Sons would be normal but daughters would be sufferer.
- (b) Sons would be sufferer but daughters would be normal
- (c) Both sons and daughters would be normal
- (d) Both sons and daughters would be normal but daughters would be carrier
- 279) Find out the incorrect pair
- (a) Cheese Lactococcus (b) Curd Saccharomyces cerevisiae (c) Idli Leuconostoc mesenteroids
- (d) Bread Yeast
- 280) Which of the following chromosome has the highest gene density
- (a) Chromosome 'Y' (b) Chromosome 1 (c) Chromosome 19 (d) Chromosome 13

RAVI (ONLY) MATHS TUITION CENTER, WHATSAPP - 8056206308 281) B- blood group man marries A- blood group women the child has B- blood group genotype of the child 18 (d) I^BI^B (a) $I^{A}I^{O}$ (b) $I^{B}I^{O}$ (c) $I^{A}I^{B}$ 282) Height in humans is (a) Somatagenic variation (b) Discontinuous variation (c) Continuous variation (d) Both B and C 283) Which blood group can safely be transfused in emergency when there is no time to analyse the blood group of recipient? (a) O and Rh⁻ (b) O and Rh⁺ (c) B and Rh⁻ (d) AB and Rh⁺ 284) A baby of blood group A cannot belong to parents blood group (a) Husband O, Wife AB (b) Husband A, Wife B (c) Husband B, Wife O (d) Husband AB, Wife A 285) Possible blood group of children born to parents having A and AB groups are (a) O, A (b) A, B, AB (c) O, A, B (d) O, A, B, AB 286) Blood group A person can (a) be parent of a child with B blood group (b) possess only B-antigen (c) safely receive blood from a donor of B-group (d) posses both antigens A and B 287) In heterogeneous conditions, both the alleles express in (a) Colour blindness (b) AB blood group (c) Rh factor (d) A and B blood types 288) ABO blood grouping in humans is an example of (a) Polygenic inheritance (b) Multiple allelism (c) Pleiotropism (d) Incomplete dominance 289) Children of a father with 'O' blood group and mother with 'AB' blood group would be (a) O (b) AB (c) O or AB (d) A or B 290) Biological unit controlling heredity is (a) Genome (b) Chromosome (c) Genotype (d) Gene 291) Name the scientist(s) who rediscovered the Mendelian work? (i) Hugo de Vries (ii) Carl Correns (iii) Tschermak (iv) T.H. Morgan (a) i and iv (b) i, ii and iv (c) i, ii and iii (d) ii, iii and iv 292) Which is not a feature of the chromosomal theory of inheritance? (a) Somatic cells of organisms are derived from zygote by repeated meiosis. (b) Chromosomes retain their structural uniqueness throughout the life of an organism. (c) Mendelian factors are located in chromosomes (d) Sutton and Boveri independently proposed the theory. 293) The following sequence represents the location of genes in a chromosome. A - B - C - M - R - S - y -Z. Which of the gene pairs will have least chance of getting inherited together? (a) A and M (b) Sand Y (c) M and Z (d) A and Y 294) Number of chromosomes (2n) in Ophioglossum is _____ (a) 1226 (b) 1622 (c) 1262 (d) 2126 295) Identify the syntenic gene from the given genes sequence of a chromosome G-H-I-J-K-L-M-A-B (a) G and H (b) J, K and L (c) G and B (d) AandB 296) Incomplete linkage was reported by Hutchinson in _____ (a) Drosophila (b) Maize (c) Neurospora (d) Lathyrus odoratus 297) Mechanism of crossing over involves the following stages. Select the correct sequence. (a) Tetrad stage ~ Synapsis ~ Bivalent stage ~ cross over (b) Syndesis ~ Tetrad ~ Crossing over ~ Terminalisation (c) Terminalisation ~ Tetrad ~ Bivalent ~ Cross over (d) Cross over ~ Bivalent ~ Tetrad ~ Terminalisation 298) During cross over, chiasma occurs between (a) Sister chromatids of non-homologous chromosomes (b) Non-sister chromatids of non-homologous chromosomes (c) Non-sister chromatids of homologous chromosomes (d) Sister chromatids of homologous chromosomes 299) At which stage of meiosis, does the chromosomes undergo recombination process (a) Leptotene stage of prophase I (b) Zygotene stage of prophase I (c) Diplotene stage of prophase I (d) Pachytene stage of prophase I

RAVI (ONLY) MATHS TUITION CENTER, WHATSAPP - 8056206308 300) Which of the following statement(s) is/are wrong with respect to Recombination process? (i) Mitotic crossing over occurs rarely in somatic cells. (ii) Syndesis refers to pairing of non-homologous chromosome. (iii) Procentric synapsis starts from telomeres. (iv) A Bivalent has four chromatids. (a) i and iv (b) ii and i (c) ii and iii (d) All the above 301) Recombination frequency (RF) is equal to $rac{No.ofoffsprings}{No.ofrecombinants} imes 100$ (b) $rac{No.of\, recombinants}{No.ofparental strains} imes 100$ (c) $rac{No.ofrecombinants}{No.ofoffsprings} imes 100$ $\frac{No.of of fsprings}{No.of parental strains} imes 100$ 302) In a population of 250 progenies produced, only 120 resemble the parental forms. Calculate the recombinant frequency. (a) 66% (b) 52% (c) 59% (d) 49% 303) Mutation theory was proposed by_____ (a) T. H. Morgan (b) Hugo de Vries (c) Alfred Sturtevant (d) Sutton and Boveri 304) Identify the mutant variety of castor. (a) Sharbathi Sonora variety (b) Aruna variety (c) Reimei variety (d) Erectiferm variety 305) Which is not a non-ionizing radiation? (a) X-rays (b) Gamma rays (c) Alpha rays (d) UV rays 306) Transition type of gene mutation is caused when_____ (a) AC is replaced by GT (b) AG is replaced by TC (c) AC is replaced by TG (d) TC is replaced by AG 307) Pick out the co-mutagen from the following: (a) Eosin (b) Mustard gas (c) Ascorbic acid (d) Nitrous acid 308) Sharbati Sonara is a mutant wheat variety which is developed by irradiating the seeds with _____ (a) Thermal neutrons (b) Gamma radiation (c) X-rays (d) UV radiations 309) Which one of the following ploidy is irrelevant to others? (a) Monosomy (b) Trisomy (c) Tetrasomy (d) Pentasomy 310) Statement 1: Euploidy involves entire sets of chromosomes Statement 2: An euploidy involves individual chromosomes within a diploid net. (a) Statement 1 is correct and Statement 2 is incorrect (b) Statement 1 is incorrect and Statement 2 is correct (c) Both the statements are correct (d) Both the statements are incorrect 311) Statement 1: In transversion mutation, single purine is changed to pyrimidine. Statement 2: In transition mutation, a purine replaced by another purine. (a) Statement 1 is correct and Statement 2 is incorrect (b) Statement 1 is incorrect and Statement 2 is correct (c) Both the statements are correct (d) Both the statements are incorrect 312) Statement 1: Pairing of homologous chromosome is called as syndesis. Statement 2: Proterminal synapsis occurs from telomeres. (a) Statement 1 is correct and Statement 2 is incorrect (b) Statement 1 is incorrect and Statement 2 is correct (c) Both the statements are correct (d) Both the statements are incorrect 313) Statement 1: The widely accepted DNA replication model is Holliday's hybrid DNA model. Statement 2: The vertical cut in the DNA results in heteroduplex with non-recombinants. (a) Statement 1 is correct and Statement 2 is incorrect (b) Statement 1 is incorrect and Statement 2 is correct (c) Both the statements are correct (d) Both the statements are incorrect 314) Statement 1: Self-sterility in Nicotiana is controlled by multiple alleles. Statement 2: Multiple alleles are always responsible for the same character. (a) Statement 1 is correct and Statement 2 is incorrect (b) Statement 1 is incorrect and Statement 2 is correct (c) Both the statements are correct (d) Both the statements are incorrect 315) One of the following is not the kind of euploidy (a) Diploidy (b) Polyploidy (c) Hyperploidy (d) Autoploidy 316) The chromosomal condition 2n -2 represents (a) Monosomy (b) Nullisomy (c) Trisomy (d) Tetrasomy 317) Identify the autotriploid plant (a) Potato (b) Coffee (c) Ground nut (d) Apple

RAVI (ONLY) MATHS TUITION CENTER, WHATSAPP - 8056206308 318) Assertion (A): Polyploidy is common in plants. Reason (R): Polyploids possess more than 2 basic sets of chromosomes. (a) A is true R is false (b) Both A and R are false (c) A is true, R is not correct explanation for A (d) R explains A

- 319) Assertion (A): Complete linkage is noticed in male species of Drosophila. Reason (R): Completely linked genes show some crossing over.
- (a) A is true R is false (b) Both A and R are false (c) A is true, R is not correct explanation for A
- (d) R explains A
- 320) Assertion (A): Self-sterility is observed in Nicotiana species.

Reason (R): Because the genes are located on chromosome.

- (a) A is true R is false (b) Both A and R are false (c) A is true, R is not correct explanation for A
- (d) R explains A
- 321) Observe the gene sequence and identify the types of aberration ABC BCD E F?
- (a) Tandem duplication (b) Simple duplication (c) Reverse tandem duplication
- (d) Displaced tandem duplication
- 322) The chromosome theory of inheritance violated which of the following laws
- (a) Law of dominance (b) Law of segregation (c) Law of independent assortment (d) None
- 323) A cross is made between a white eyed female Drosophila, with a red eyed male drosophila, what will the colour of eyes for their male and female offspring
- (a) Both red eye (b) Both white eye (c) Red eyed female and white eyed male
- (d) Red eyed male and white eyed female
- 324) If a gamate has 16 chromosomes what will be the number of chromatids before anaphase 1?
- (a) 8 (b) 16 (c) 32 (d) 64
- 325) The theory of recombination of linked gene due to crossing over chromosome was put forwarded by
- (a) Mendel (b) T.H. Morgan (c) T. Boveri (d) W.S. Sutton
- 326) Percentage of recombination between A and B is 10% and A and C 18% anti B and C is 25%, then the arrangement of genes is
- (a) ABC (b) ACB (c) BCA (d) BAC
- 327) Genes which are located on the same chromosome are
- (a) Mutant genes (b) Codominant (c) Linked to each other (d) Allelic to each other
- 328) Intimate pairing between two homologous chromosomes is initiated during which stage of prophase 1 of meiosis
- (a) Zygotene (b) Leptotene (c) Pachytene (d) Diplotene
- 329) The concept of gene mapping was first developed by
- (a) T.H. Morgan (b) Alfred H Stutevant (c) Robin Holliday (d) Hutchinson
- 330) In order to calculate map distance of genes on a chromosome, this has to be considered
- (a) Number of mutant genes (b) Cross over percentage
- (c) Recombination frequency of each gene locus (d) Non cross over percentage
- 331) Find out the incorrect statement.
- (a) Genetic map ordered list of genetic loci along a particular chromosome.
- (b) Frequency of crossing over related to the distance between genes.
- (c) Genes farther apart on a chromosome more likely to be separated during crossing over.
- (d) Linked genes have recombination frequencies more than 50%
- 332) The no. of linkage groups in sweet pea is
- (a) 7 (b) 2 (c) 4 (d) 10
- 333) In Nicotiana plant, in which one of the following cross made between seed parent and pollen parent, all the pollens are effective, resulting in four kinds of progenies.
- (a) $S_1S_2 \times S_1S_2$ (b) $S_1S_2 \times S_2S_3$ (c) $S_3S_4 \times S_1S_2$ (d) $S_2S_3 \times S_2S_3$
- 334) Which one of the following genotypes induces maleness in Papaya?
- (a) mm (b) M_1 m (c) M_2 m (d) M_1 M_2
- 335) If the genes are located in a chromosome as A-B-C-D-E--O--T. Which of the gene pairs have least probability of inherited together?
- (a) C and D (b) A and T (c) A and B (d) O and T
- 336) Cyanodan dactylon is a
- (a) Manmade auto triploid (b) Natural auto triploid (c) Auto tetraploid (d) Pentaploid
- 337) Which one of the following, can enhance the effects of known mutagen?
- (a) Mustrad gas (b) Eosine (c) Enthrosine (d) Caffeine

RAVI (ONLY) MATHS TUITION CENTER, WHATSAPP - 8056206308 338) Point mutation involves

- (a) Insertion (b) Change in single base pairs (c) Duplication (d) Deletion
- 339) Find out the incorrect statements
- (1) Change in amino acid encoded in silent mutation
- (2) No change in amino acid encoded in missense mutation
- (3) Non sense mutation creates translational termination codon
- (4) Frame shift mutation shifts triplet reading of codons out of correct phase
- (a) Both (1) and (2) (b) Both (2) and (3) (c) Both (3) and (4) (d) (2) only
- 340) Select the correct order of the series, with regard to the number of chromosomes found in Ophiaglossum Giant Sequoia, Equisetum and Arabidopsis.
- (a) 22, 216, 10, 1262 (b) 216, 10, 1262, 22 (c) 10, 1262, 22, 216 (d) 1262, 22, 216, 10
- 341) Match the column I and column ll with regard to the types of mutations classified and their major features

<u>icatares</u>	
column I	column ll
A Gain of	1. increases
function	normal function
B. Loss of	2. Reduces
function	normal function
C. Hyper	3. Eliminate
morphic	normal function
D. Hypo	4. Expressed at
morphic	incorrect time

- (a) A-3 B-4 C-2 D-1 (b) A-4 B-3 C-1 D-2 (c) A-2 B-1 C-3 D-4 (d) A-1 B-2 C-4 D-3
- 342) Observe the following statement.
- 1. An organism which possessed two or more basic sets of chromosome derived from two different species called allopolyploidy.
- 2. The F, hybrid obtained from cross between Triticum durum and secale cereale is a fertile one of these.
- (a) 1 Correct 2 Wrong (b) 1 Wrong 2 Correct (c) 1 Wrong 2 Wrong (d) 1 Correct 2 Correct
- 343) The genotype of colourless full seed in maize seed is
- (a) CS CS (b) Cs Cs (c) cS cS (d) cs cs
- 344) In maize plant, if it has to have both tassel and cob, the genotype must be
- (a) ba / ba ts/ ts (b) ba / ba ts⁺ / ts⁺ (c) ba⁺ ba⁺ / ts⁺ (d) ba⁺ ba⁺ / ts / ts
- 345) The transfer of a segment of chromosome to a non-homogeneous chromosome is called _
- (a) Crossing over (b) Translocation (c) Linkage (d) Duplication
- 346) Match the following and find the correct answer:

i) Pentasomy	A) - 2n - 2
ii) Double	B) - 2n +
monosomy	1
iii) Nullisomy	C) -2n - 1 - 1
iv) Trisomy	D) - 2n + 3

- (a) (i)-C, (ii)-D, (iii)-B, (iv)-A (b) (i)-B, (ii)-C, (iii)-D, (iv)-A (c) (i)-C, (ii)-B, (iii)-A, (iv)-D
- (d) (i)-D, (ii)-C, (iii)-A, (iv)-B
- 347) When red eyed female drosophila is crossed with white-eyed male, the F1 offsprings would be
- (a) Females are with white eye and males are with red eye
- (b) Males are with red eye and females are with yellow eye
- (c) Both males and females are with red eye (d) Both males and females are with white eyes
- 348) How can we reverse the sterility of F1 hybrid?
- (a) Genetic Engineering (b) Protoplasmic fusion (c) Induced Mutation
- (d) Induce chromosomal abberation
- 349) In a male gametophyte, the chromosomal number of generative nucleus is (A) and tube nucleus is (B)
- (a) (A) (n) (B) (2n) (b) (A) (2n) (B) (n) (c) (A) (2n) (B) (2n) (d) (A) (n) (B) (nn)
- 350) Which one of the following is incorrect regarding chromosomal behaviour during cell division?
- (a) The alleles of a genotype are found in the some locus of a homologous chromosome
- (b) In the S phase of meiotic interphase each chromosome replicates forming two copies of each allele, one on each chromatid
- (c) The homologous chromosomes segregate in metaphae I, thereby separating two different alleles
- (d) In anaphase II of meiosis, separation of sister chromatid of homologous chromosomes takes place.
- 351) If haploid number in a cell is 23. the double monosomic and pentasomy number will be
- (a) 44 and 49 (b) 17 and 34 (c) 47 and 46 (d) 45 and 48

RAVI (ONLY) MATHS TUTTION CENTER, WHATSAPP - 8056206308 352) If there are 999 bases in an RNA that codes for a protein with 333 amino acid and the base at position 901 is deleted such that the length of the RNA becomes 998 bases, how many codons will be altered? (a) 1 (b) 11 (c) 33 (d) 333 353) In a mutational event when adenine is replaced by guanine, it is the case of (a) Frameshift mutatin (b) Transcription (c) Transition (d) Transversion

354) Mutations can be induced with

357) Frameshift mutation occurs when

(a) UV and Gamma rays are mutagens

(c) The genes show independent assortment

(d) Sister chromatids of bivalents

368) Mutations do not arise by

370) The term allele was coined by

ASSERTION REASON

359) Genetic map is one that

(d) Protein structure

meiosis

(a) Gamma radiations (b) Infrared radiations (c) IAA (d) Ethylene

(a) Translocation (b) Crossing over (c) Inversion (d) Duplication

(a) Transition (b) Translocation (c) Deletion (d) Transversion

(c) Number of crossing over between them (d) None of these

355) The mechanism that causes a gene to move from one linkage group to another is called

(a) Base is substituted (b) base is deleted or added (c) Anticodons are absent (d) None of these

358) The distance between two genes in a chromosome is measured in cross-over units which represent

(a) Establish sites of the genes on a chromosome (b) Establishes the various stages in gene evolution (c) Shows the stages during the cell division (d) Shows the distribution of various species in a region

360) After a mutation at a genetic locus of the character of an organism changes due to the change in

363) Which of the following statement is not true of two genes that show 50% recombination frequency?

(d) If the genes are present on the same chromosome, they undergo more than one crossover in every

356) A point mutation comprising the substitution of a purine by pyrimidine is called

(a) Ratio of crossing over between them (b) Percentage of crossing over between them

(a) DNA replication (b) Protein synthesis pattern (c) RNA transcription pattern

(a) The genes may be on different chromosomes (b) The genes are tightly linked

364) Haploids are more suitable for mutation studies than the diploids. This is because

365) Crossing over that results in genetic recombination in higher organisms occurs between

(c) many types of hereditary variations that can be seen with low Power microscope

(a) Chemical factors (b) Physical factors (c) Sociological factors (d) Biological factors

(a) Frame shift mutations (b) Point mutations (c) Chromosome aberration (d) Gene aberration

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(a) Non-sister chromatids of a bivalent (b) Two daughter nuclei (c) Two different bivalents

(a) All mutations, whether dominant or recessive are expressed in haploids

362) Which one of the following is a wrong statement regarding mutations?

(b) Change in a single base pair of DNA does not cause mutation

(d) Cancer cells commonly show chromosomal aberrations.

(b) Haploids are reproductively more stable than diploids

(d) Haploids are more abundant in nature than diploids

366) The reason for the selection of fruit fly T.H. Morgan are

367) The ratio obtained by Morgan with linkage in coupling is

(a) 9:3:3:1 (b) 1:1:1:1 (c) 7:1:1:7 (d) 1:7:7:1

369) Change in a single base pair of DNA is called

(a) Mendel (b) Bateson (c) Watson (d) Morgan

(c) Mutagens penetrate in haploids more effectively than diploids

(a) a single mating could produce a large number of progeny flies

(b) there was a clear cut differentiation of sexes easily distinguishable

(a) a &b correct (b) a & c correct (c) b & c correct (d) a, b, & c correct

(c) Deletion and insertion of base pairs cause frame shift mutations.

361) In a hexaploidy wheat, the haploid (n) and basic (x) numbers of chromosomes are

(a) n = 21 and x = 7 (b) n = 7 and x = 21 (c) n = 21 and x = 21 (d) n = 21 and x = 14

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371) **Assertion:** STD can be prevented by Monogamy

Reason: TNHSP, a unit of Health and family welfare development of Government of Tamil Nadu does free screening for cervical and breast cancer

Codes:

- (a) A and R correct, R is the correct explanation of A
- (b) A and R right but R is not the correct explanation of A
- (c) A is correct R is false
- (d) Both A & R are false
- 372) **Assertion:** MTP during the second trimester is risky for the parent & foetus.

Reason: It must be performed by trained medical personnel.

Codes:

- (a) A and R correct, R is the correct explanation of A
- (b) A and R right but R is not the correct explanation of A
- (c) A is correct R is false
- (d) Both A & R are false
- 373) **Assertion:** Oral contraceptives are not recommended for birth control.

Reason: Surgical sterilisation is the best birth control method for all age groups.

Codes:

- (a) A and R correct, R is the correct explanation of A
- (b) A and R right but R is not the correct explanation of A
- (c) A is correct R is false
- (d) Both A & R are false
- 374) **Assertion:** Vitamin E helps in the normal functioning of reproductive structures in man.

Reason: Vitamin E is known as anti sterility vitamin.

Codes:

- (a) A and R correct, R is the correct explanation of A
- (b) A and R right but R is not the correct explanation of A
- (c) A is correct R is false
- (d) Both A & R are false
- 375) **Assertion:** Condomes safeguards the user from AIDS and STDs

Reason: Condoms are made of polyunthane, latex and lambskin.

Codes:

- (a) A and R correct, R is the correct explanation of A
- (b) A and R right but R is not the correct explanation of A
- (c) A is correct R is false
- (d) Both A & R are false
- 376) **Assertion (A):** IUD's are inserted in the ovary.

Reason (R): IUD's Increases phagocytosis of the sperm.

Codes:

- (a) Both A and R are correct
- (b) Both A and R are incorrect
- (c) A is correct R is incorrect
- (d) A is incorrect R is correct
- 377) **Assertion (A):** Amniocentesis helps to diagnose the chromosomal aberrations in foetus.

Reason (R): Amniocentesis is legalized is our country.

Codes:

- (a) Both A and R are wrong
- (b) A is right and R is wrong
- (c) R explains A
- (d) A is wrong R is right
- 378) **Assertion:**LNG 20 are often called as hormone releasing intrautereine systems (IUS).

Reason:They increase the viscosity of the cervial mucus and there by prevent sperms from entering the cervix. (QY-2019]

Codes:

- (a) (A) is true, (R) is false
- (b) Both (A) and (R) are true (R) is the correct explanation of (A)
- (c) (A) is false, (R) is true
- (d) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- 379) **Assertion (A):** Tubectomy is the surgical sterilization in women

Reason (R): It blocks the transport of the gametes and prevents conception.

Codes:

- (a) (A) Correct; (R) Wrong
- (b) (A) Wrong; (R) Correct
- (c) (A) Correct; but (R) does not explain (A)
- (d) (A) Correct; (R) explains (A)

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380) **Assertion:** Periodic abstinence is a natural method where couples abstain from coitus.

Reasons: Coitus from days 5-10 should be avoided because this is the time of ovulation.

Codes:

- (a) Both are true but reason is not correct explanation.
- (b) Assertion is true but reason is wrong
- (c) Both are wrong
- (d) Both are correct, reason is correct explanation.
- 381) Read the statements A and 'B' and identify the correct option

Statement A: Women are at the peak of conception on the 14th day of ovulation.

Statement B: Vasectomy is a method normally employed to avoid conception in females.

Codes:

- (a) Statement 'A' is wrong 'B' is right.
- (b) Statement 'a' is right 'b' is wrong.
- (c) Both the statements are right
- (d) Both the statements are wrong

382) **Assertion:** ABO Blood grouping is based on multiple alleles.

Reason: There are 6 possible genotypes and 4 possible blood types

Codes:

- A. A and R are true, R is the correct explanation of A.
- B. A and R are true, R is not the correct explanation of A.
- C. A is true, R is false.
- D. Both A and R are false.

383) **Assertion:** The Kappa in paramecium appears to be a bacterium.

Reason: Kappa particles ate not dependent on the chromosomal genes

Codes:

- A. A and R are true, R is the correct explanation of A.
- B. A and R are true, R is not the correct explanation of A.
- C. A is true, R is false.
- D. Both A and R are false.

384) **Assertion:** Phenylketonuria occurs due to the mutation in gene PAH on chromosome 11.

Reason: DOPA is not converted to melanin

Codes:

- A. A and R are true, R is the correct explanation of A.
- B. A and R are true, R is not the correct explanation of A.
- C. A is true, R is false.
- D. Both A and R are false.

385) **Assertion (A):** XX-XO type of sex determination is seen in bedbugs cockroaches and grass hoppers.

Reason (R): The sex of the offspring depends upon the egg

Codes:

- (a) Both (A) and (R) are true and (R) is not the correct explanation for (A).
- (b) Both (A) and (R) are false.
- (c) (A) is true and (R) is false.
- (d) Both (A) and (R) are true and (R) is the correct explanation for (A)

386) **Assertion (A):** Increase in temperature decreases the rate of mutation.

Reason (R): rise in temperature, breaks the hydrogen bonds between two DNA nucleotides which effects the process of replication and transcription

Codes:

- (a) A is not correct R is correct
- (b) A is correct R is not correct
- (c) A is correct R is correct
- (d) Both A and R are wrong

387) **Assertion:** Multiple alleles of a series always occupy the same locus in the homologous chromosome.

Reason: Therefore no crossing over occurs within the alleles of a series.

Codes:

- (a) Assertion correct Reason not correct
- (b) Assertion correct Reason correct
- (c) Assertion wrong Reason correct
- (d) Both assertion and Reason are wrong

FIND WRONG PAIR

 $5 \times 2 = 10$

388)	(i) Chemotherapy	Cervical cancer
	(ii) IVF	Egg retrival
	(iii) Contraceptive	Infertility
	(iv) Cryopreservation	Avoid ovarian stimulation

- (a) iii only
- (b) ii, and iv
- (c) iv
- (d) i and iv only

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KAVI (UNLI) MAINS IUITIUN CENTER, WHATSAPP - 0
389) (i) Doppler device Foetal heart
(ii) NACO Family planning
(iii) 4 - D ultrasound Early pregnancy
(iv) Herpes simplex Enlarged lymph nodes
(a) i and iv
(b) ii, and iv
(c) i and iii
(d) iii and iv
390) (i) Non-medicated IUD Lippes loop
(ii) Saheli Plastic loop
(iii) Hormone releasing IUD Progestasert
(iv) Copper releasing IUD Multi load 375
(a) i and iv
(b) ii
(c) i and iii
(d) iii and iv
391) i) Downs syndrome - Trisomy 13
ii) Shell coiling in snail-Cytoplasmic inheritance
iii)Kappa particle -Sonneborn
iv) Eugenics -Galton
(a) i and iv
(b) i only (c) ii and iii
(d) i, ii and iv
392) i) SRY -X Chromosome
ii) Heterogametic female-XX-XO
iii) Barr body -Sex Chromatin
Dari body - Sca Cirionadii

-Landsteiner

(a) i and iv

(b) ii and iii and iv

iv) Rh factor

(c) ii only

(d) i and ii

ODD OUT

393) (a) Saheli

(b) CuT-380

(c) LNG - 20

(d) GnRH

394) (a) IUD

(b) ICSI

(c) Vasectomy

(d) IUS

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