



BIOLOGY

BOOKS - SANTRA BIOLOGY (BENGALI ENGLISH)

HUMAN REPRODUCTION

Mcqs

1. The route through which embryonic testes descend from the pelving cavity into the

scrotum is called

- A. Pelvic canal
- B. Inguinal canal
- C. Scrotal canal
- D. None of these

Answer: B



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2. The structure in which the sperms temporarily remain and receive nutrition

A. Seminiferous tubule

B. Epididymis

C. Vas deferens

D. Prostate gland

Answer: A



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3. By the influence of which hormone menstruation starts first in female is

A. ACTH

B. Testosterone

C. GTH

D. Progesterone

Answer: D



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4. The thick fold of skin on both sides around the vaginal orifice is called

A. Clitoric

B. Labia majora

C. Labia minora

D. Vestibule

Answer: B



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5. After the last menstruation, ovulation occurs from the mature graafian follicle within

A. 3-5 days

B. 7-9 ays

C. 13-17 days

D. 21-27 days

Answer: C



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6. After fertilization zygote forms

A. Blastula

B. Gastrula

C. Morula

D. Embryo

Answer: C



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7. The process of formation of spermatozoa from spermatid is called

A. Spermatogenesis

B. Spermiation

C. Transformation

D. spermiogenesis

Answer: D



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8. The life span of active spermatozoa is

A. 40 hours

B. 48 hours

C. 60 hours

D. 72 hours

Answer: D



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9. One which is not an internal sex organ in female is

A. Fallopian tube

B. Uterus

C. Vestibule

D. Bartholin's gland

Answer: C



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10. In female body pregnancy begins with the formation of

A. Blastula

B. Gastrula

C. Zygote

D. Morula

Answer: C



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11. One which is not an event in the process of spermatogenesis is

A. Meiosis I

B. Meiosis II

C. Formation of polar body

D. Formation of spermatid

Answer: C



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12. Corpus luteum is formed in the graafian follicle

- A. Before ovulation
- B. After ovulation
- C. Before pregnancy
- D. After pregnancy

Answer: B



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13. Age of the embryo when it becomes a foetus?

A. 28 days

B. 2 weeks

C. 2 months

D. 5 months

Answer: C



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14. Spermatozoa are nourished during
developed by

A. germinal epithelium

B. sertoli cells

C. leydig cell

D. mitochondria

Answer: B



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15. Oxytocin secreted by the posterior lobe of pituitary is concerned with

- A. metabolism of carbohydrate
- B. stimulation of milk secretion
- C. contraction of uterine muscles
- D. secondary sex characters

Answer: C



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16. A human cell which contains 22 autosomes and a Y chromosome is probably a

- A. somatic cell of female
- B. unfertilized egg cell
- C. somatic cell of male
- D. sperm cell

Answer: D



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17. Amnion protects the embryo from

A. toxic effect

B. desiccation

C. humidity

D. shocks

Answer: D



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18. Leydig cel produce

A. testosterone

B. progesterone

C. FSH

D. Oestrogen

Answer: A



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19. Polar body is

- A. a precursor cell that becomes an egg cell
- B. non functional cell
- C. produce when fertilization occurs
- D. another name for an egg cell

Answer: B



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20. The main embryonic membranes are

A. amnion and placentage

B. amion and chorion

C. chorion and allantois

D. chorionand umbilicus

Answer: B



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21. The common organ for excretory and reproductive system of human male is

A. urethra

B. ureter

C. van deferens

D. testes

Answer: A



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22. FSH or Follicle stimulating hormone

- A. Stimulates the seminiferous tubules to produce sperm
- B. is secreted by females but not males
- C. secretion is controlled by posterior pituitary
- D. all are true

Answer: A



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23. An oocyte fertilized in the

A. ovary

B. oviduct

C. uterus

D. vagina

Answer: B



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24. The hollow ball like cells formed from cleavage is termed as

A. gastrula

B. blastula

C. blastocoel

D. blastomere

Answer: B



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25. Human females possess 44+XX chromosome. The secondary oocyte shall be

A. 22+X

B. 22

C. 44

D. 44+XX

Answer: A



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26. First menstrual cycle is

A. implantation

B. manarche

C. menopause

D. parturition

Answer: B



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27. Common duct formed by union of an deference and duct from seminal vesicle is

- A. spermatic duct
- B. urethra
- C. tunica vasculosa
- D. ejaculatory duct

Answer: D



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28. Umbilical cord contains

A. Placenta

B. alantoic artery and vein

C. umbilicus

D. discus proligerus

Answer: B



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29. How many sperms are produced from one spermatocyte?

A. 2

B. 8

C. 4

D. 6

Answer: C



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30. In mammals, the arhenteron/primitive gut is lined with

A. mesoderm and endoderm

B. ectoderm

C. mesoderm

D. endoderm

Answer: D



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31. Bartholin's gland of females corresponds to gland in male

- A. Cowper's gland
- B. rectal glands
- C. prostate glands
- D. inguinal glands

Answer: A



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32. Acrosome is made up of

A. ribosomes

B. centrioles

C. mitochondria

D. golgi bodies

Answer: D



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33. On fertilization, the urine of 'would be mother' contains

A. FSH

B. hCG

C. progesterone

D. LH

Answer: B



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34. First step in activation of ovum during process of fertilization is-

- A. fertilizin and antifertilizin reaction
- B. formation of fertilization cone
- C. formation of fertilization membrane
- D. penetration of sperm in ovum

Answer: A



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35. Movement of sperm is by

A. middle piece

B. head

C. tail/flagellum

D. acrosome

Answer: C



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36. First or free milk is called

A. rostrum

B. choleterol

C. baby's molk

D. colostrum

Answer: D



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37. Amniocentesis is employed from determining

- A. errors in amino acid metabolism in embryo
- B. hereditary abnormality in embryo
- C. cardiac ailments of embryo
- D. all the above

Answer: B



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38. At menopause there is rise in urinary excretion of

A. MSH

B. STH

C. LH

D. FSH

Answer: D



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39. Cell division that occurs in zygote is called

A. differentiation

B. cleavage

C. mitosis

D. meiosis

Answer: B



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40. Sertoli cells secrete a hormone

A. inhibin

B. relaxin

C. testosterone

D. gonadotropin

Answer: A



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41. Fertilizins are present over

A. Polar bodies

B. sperms

C. mature eggs

D. immature eggs

Answer: C



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42. How many sperms are produced from one primary spermatocyte?

A. 2

B. 4

C. 8

D. 6

Answer: B



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43. First or free milk is called

A. cholesterol

B. Baby's milk

C. colostrum

D. rostum

Answer: C



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44. Acrosome is made up of

A. Centrioles

B. Ribosomes

C. Golgi bodies

D. Mitochondria

Answer: C



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45. Sertoli cells are found in

A. Seminiferous tubules

B. cauda epididymis

C. germinal epithelium

D. caput epididymis

Answer: A



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46. Failure of testes to descend into scrotum is

A. tubercotomy

B. Impotency

C. Vasectomy

D. Cryptorchidism

Answer: D



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47. Function of sertolic cels is to

A. Help is fertlization

B. form the sperms

C. Nourish sperms

D. Synthesize hormones

Answer: C



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48. Stage of embryo development at which implantation occurs in human female is

A. neurula

B. Zygote

C. Morula

D. Blastocyst

Answer: D



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49. Cytoplasm of ovum does not possess

A. Ribosomes

B. Mitochondria

C. Golgi complex

D. Centrosome

Answer: D



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50. Corpus spongiosum occurs in

A. Penis

B. Uterine wall

C. Ovary

D. Testis

Answer: A



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51. Sperms are produced in

- A. Prostate gland
- B. Epididymis
- C. Seminiferous tubules
- D. Prostate gland

Answer: C



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52. Level of oestrogen and progesterone are minimum at the time of

- A. Secretory phase
- B. Follicular phase
- C. Onset of menstrual phase
- D. ovulation

Answer: C



53. Pick up the correct information about menstrual cycle control

(i) estrogen and progesterone of ovary

(ii) FSH of pituitary

(iii) FSH and LH of pituitary

(iv) Immature eggs

A. i,ii correct

B. i,iii correct

C. i,iv correct

D. *i*, *ii*,*iii* correct

Answer: B



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54. LH and FSH are collectively called

A. Somatotrophins

B. Luteotrophins

C. Oxytocin

D. Gonadotrophins

Answer: D



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55. In females, hormone inhibin is secreted by

- A. Granulosa and cumulus oophorus cells
- B. Granulosa cells and zona pellucida
- C. Granulosa cells and corpus luteum
- D. Granula and theca cells

Answer: C



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56. Human chorionic gonadotrophin is secreted by

A. Amnion

B. Placenta

C. Chorion

D. Ovaries

Answer: B



57. Accessory glands associated with genital organs of female are

(A) Vestibular or Bartholin's

(B) Cowper's

(C) Ampullary

(D) Vesicular

A. B,C

B. D only

C. A, B

D. A only

Answer: D



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58. Match the columns and find the correct combination:

Column I

- (A) Hypothalamus
- (B) Acrosome
- (C) Graafian follicle
- (D) Leydig cells
- (E) Parturition

Column II

- (i) Sperm lysins
- (ii) Oestrogen
- (iii) Relaxin
- (iv) GnRH
- (v) Testosterone

A. A-(ii), B-(i), C-v, D-iv, E-iii

B. A-ii, B-*i*, C-iv, D-iii, E-v

C. A-iv, B-*i*, C-ii, D-v, E-iii

D. A-v, B-*i*, C-iii, D-ii, E-iv

Answer: C



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59. In human the oocyte is maintained in a state of meiotic arrest by secretions of

A. Granulosa cells

B. Theca

C. Zona pellucida

D. Cumulus oophorus

Answer: A



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60. About which day in a normal human menstrual cycle does rapid secretion of LF (popularly called LF surge). Normally occurs?

A. 5th day

B. 14th day

C. 11th day

D. 20th day

Answer: B



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61. The testes in humans are situated outside the abdomical cavity inside a pouch called scrotum. The purpose served in for

- A. Providing more space for the growth of epididymis
- B. escaping any possible compression by the visceral organs
- C. Maintaining the scrotal temperature lower than the internal body temperature
- D. providing a secondary sexual for exhibiting the male sex

Answer: C



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62. Signals for parturition originate from

A. Placenta only

B. fully developed foetus only

C. both placenta as well as fully developed
foetus

D. oxytocin released from maternal
pituitary

Answer: C



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63. Which one of the following statements is false in respect of viability of mammalian sperm?

A. Viability of sperm is determined by its motility

B. sperms must be concentrated in a thick suspension

C. Sperm is viable for only upto 24 hours

D. survival of sperm depends on the pH of

the medium and is more active in

alkaline medium

Answer: C



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64. Which of the following can not be determined by amniocentesis in embryo?

A. Jaundice

B. Klinefelter's syndrome

C. Sex of the embryo

D. Down's syndrome

Answer: A



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65. Decrease in levels of which of the following causes menstrual flow?

A. Vasopressin

B. Progesterone

C. FSH

D. Oxytocin

Answer: B



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Choose More Than One Correct Answers

1. Male secondary sex organs include

A. vas deferens

B. Vestibule

C. Prostate gland

D. Seminal vesicle

Answer: A::C::D



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2. Scrotum is covered by the following layers

A. Tunica vaginalis

B. Tunica dartos

C. External spermatic fascia

D. Mons pubis

Answer: A::B::C



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3. Fallopian tubes in females consists of

A. Infundibulum

B. Ampulla

C. Insthmus

D. Vulva

Answer: A::B::C



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4. Wall of the uterus contains the following layers

A. Cornua

B. Perimetrium

C. Myometrium

D. Endometrium

Answer: B::C::D



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5. Secondary sex organs in female are

A. fallopian tube

B. ovaries

C. uterus

D. mammary glands

Answer: A::C::D



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6. Which of the following hormones play a role in lactation?

A. Estrogen

B. Prolactin

C. Progesterone

D. Oxytocin

Answer: B::D



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7. Testis is surrounded by three layers. They are

- A. Tunica vaginalis
- B. Tunica albuginea
- C. Permetrium
- D. Tunica vasculosa

Answer: A::B::D



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8. The constituents of semen are

A. Fructose

B. Fibrinogen

C. Sucrose

D. Testosterone

Answer: A::B



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9. Which hormones attain peak level during ovulatory phase of menstrual cycle in females?

A. Progesterone

B. Oxytocin

C. LH

D. FSH

Answer: C::D



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10. Which of the following enzymes are present in the acrosome of human sperm?

A. Inhibin

B. Hyaluronidase

C. Acrosin

D. Fibrinogen

Answer: B::C



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Fill In The Blanks

1. The fine coiled tubule connected to the end part of epididymis is_____.



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2. The front part of the head of sperm is covered by a cap like structure called_____.



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3. Humans are ____.



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4. The process of release of ovum from a mature follicle is called ____.



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5. At the time of attachment of the sperm with the body of ovum, the ovum secretes ____.



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6. The stability of pregnancy is maintained by___hormone.



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7. The antrum is the graafian follicle is filled up with a fluid called_____.



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8. The corpus luteum contains yellow pigment called_____.



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9. At the time of penetration of sperm within the ovum, an active enzyme called_____ is formed from sperm.



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10. The structure which provided vascular connection between foetus and uterus is called ____.



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11. The embryo is connected to the placenta by ____ Cord.



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12. The sperm enters the ovum by digesting a limited area of _____.



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Mention True Or False

1. Leydig cells are found in ovary.



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2. Vagina is the external sex organ in female.



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3. Through an opening at the centre of hymen, the vaginal orifice opens to the exterior.



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4. Menstrual cycle ceases during pregnancy.



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5. If pregnancy occurs due to fertilization of ovum, corpus luteum persists for 9 months.



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6. The Bartholin's gland is a secondary sex organ in male.



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7. At the time of fertilization, the acrosome of sperm secretes hyaluronic acid.



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8. Oogenesis is controlled by LH and Testosterone hormone.



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9. The child is born after 180 days of fertilization.



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10. The blastula by invagination forms three layered gastrula.



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11. Cat is ca monoestrous animal.



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12. Within the mother's body,, the embryo remains suspended in amniotic fluid.



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Very Short Answer Type Questions

1. What is scrotum?



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2. Through which duct sperms are discharged with semen into the urethra?



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3. Name the organ in female reproductive system which is homologous with the penis in male.



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4. What is spermiation?



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5. What is atretic follicle?



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6. Which hormone initiates the formation of milk in mammary gland?



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7. Name the hormone responsible for the vigorous contractions of the uterine muscles.



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8. What is monoestrous animal?



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9. Where does fertilization take place in human?



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10. What is called 'Fit sperm'?



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11. What is ooplasm?



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12. What is the name of the outer covering of mature ovum?



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13. From where sperm enters the egg?



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14. Which pituitary hormone stimulates spermatogenesis?



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15. Name the peritoneal covering of ovary.



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16. Puncture of the vitelline membrane of egg
is done by_____



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17. Name the process of rupture of graafian follicle and the subsequent release of the ovum from the ovary.



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18. What is the stage that mammalian embryo implanted into the uterus?



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19. Which muscle assist in parturition?



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20. What is the name of the cavity formed in the gastrula?



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21. Name the two main foetal membrane?



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22. How many chromosomes are present in a normal human ovum?



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23. Name the layer of cells forming the outer wall of the blastocyst?



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24. Deposition of sperms in female reproductive tract is called_____



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25. Name the non cellular secreted transparent layer that surrounds the ovum.



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26. Name the tube which carries spermatozoa out from the testis.



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27. Which hormone is responsible for the development and maintenance of the male sex characters?



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28. name the structure through which exchange of materials between mother and foetus occurs.



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29. Which particular part of the mammalian sperm secretes enzymes to facilitate penetration into the ovum?



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30. Please give the term which indicate the phenomenon of sperm activation of in mammal.



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31. What is called incomplete descent of testis into scrotum.



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32. Give the name of two female secondary sex organs.



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33. Mixing up of both sperm and ovum chromosome is called ____.



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34. The anterior end of epididymis is



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35. By which structure vaginal orifice is covered?



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36. Name the muscular copulatory organ of male?



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37. In each day how many sperms are formed?



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38. Give the term which indicate transformation of spermatids into spermatozoa.



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39. What is the duration of luteal phase during menstrual cycle ?



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40. Name a chemical substance and an active enzyme which are secreted from sperm during penetration process?



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41. What did you mean by oligospermia and azoospermia?



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42. What is semen?



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Short Answer Type Questions

1. What is graafian follicle?



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2. What are ovarian hormones?



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3. What is ovulation?



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4. Mention the main functions of testis.



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5. What is testosterone? From where is it secreted?



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6. What is prostate gland?



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7. What is the chromosome number of human spermatozoa?



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8. What is pronucleus?



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9. What is zona pellucida?



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10. What is corpus luteum?



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11. What do you mean by gonads?



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12. What are spermatogenesis and spemiogenesis?



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13. What is spermiation?



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14. What are leydig cells and sertoli cell?



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15. What is oogenesis?



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16. Name the accessory sex organs of man.



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17. What is capacitation?



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18. Name the accessory sex organs of woman.



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19. What is scrotum?



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20. What is rete testis?



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21. What is cryptorchidism?



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22. What is acrosome? What is its function?



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23. What is menstrual cycle?



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24. What is oestrous cycle?



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25. What is liquor folliculi?



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26. What is semen?



Watch Video Solution

27. What is ejaculation?



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28. What is clitoris?



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29. What is fertilization ? Where does it occurs?



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30. What is implantation?



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31. Give the structural morphology of mature sperm.



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32. Differentiate between plastula and gastrula.



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33. What did you mean by puberty? State different changes in puberty.



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34. State three major female reproductive disorders.



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35. give a short note for implantation.



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36. What is parturition? Give an idea about hormonal regulation of parturition.



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37. Write down the hormonal and neural control of male reproductive system.



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38. Write a short note about foetal membrane.



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39. Differentiate between spermatogenesis and oogenesis.



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40. Give an elementary idea about oogenesis.



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41. Write down the changes in uterus and ovaries with points



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42. State the functions of placenta.



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Long Answer Type Questions

1. What are reproductive organs? Name the primary and secondary sex organs in male and female.



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2. What do you mean by secondary sex characters? Mention the secondary sex characters in male and in female.



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3. Describe the histological structure of testis.



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4. Which hormone is secreted from testis?

State its functions.



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5. Describe the histological structure of ovary?

Describe the process in brief.



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6. Name the chief and the accessory reproductive organs in female.



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7. Describe the structure of graafian follicle.



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8. name the hormones secreted from the ovary. State their functions in brief.



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9. Name the phases of menstrual cycle in uterus. Describe the phases in brief.



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10. What is oestrous cycle in monoestrous animal?



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11. What is fertilization? Describe, in brief, the process of fertilization in human.



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12. What is spermatogenesis and oogenesis? Compare them.



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13. What is placenta? Describe functions.



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14. Describe the process of embryo formation.



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