



BIOLOGY

BOOKS - MODERN PUBLICATION

HUMAN REPRODUCTION

Exercise

1. Human embryo is protected by which cavity?

A. Pleural cavity

B. Peritoneal cavity

C. Amniotic cavity

D. Neural cavity

Answer:



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2. ____ is responsible for the inhibition of ovulation

A. Oestrogen

B. Prolactin

C. Progesteron

D. Oxytocin

Answer:



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3. Mature ovum enters fallopian tube through

A. Nephrostome

B. Ostium

C. Vagina

D. Ureter

Answer:



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4. Interstitial cells of testis produce hormone for the development of secondary sexual character in males

A. Testosteron

B. Progesteron

C. Thyroxin

D. FSH

Answer:



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5. Which is structural and functional unit of testis

A. Fallopian tube

B. Nephric tubule

C. Urethra

D. Seminiferous tubule

Answer:



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6. Dysmenorrhea, a painful menstruation is caused by

A. Uterine tumours

B. Ovarian cysts

C. Pelvic inflammation

D. All of the above

Answer:



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7. The sperm produce some enzymes known as "sperm lysin" which helps in-

A. Spermatogenesis

B. Viability of sperm

C. Penetration of sperm

D. Movement of sperms

Answer:



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8. Gametes are in chromosomal make up

A. Diploid

B. Haploid

C. Tetraploid

D. Polyploid

Answer:



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9. Zygotes contain number of chromosomes

A. n

B. $2n$

C. $3n$

D. 4n

Answer:



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10. The sertoli cells are regulated by which hormones of pituitary ?

A. GH

B. Prolactin

C. FSH

D. LH

Answer:



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11. is the intromittent organ of man

A. Lips

B. Tongue

C. Testis

D. Penis

Answer:



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12. Swelling of _____ in old persons obstructs urination

- A. Seminal Vesicle
- B. Prostate gland
- C. Blubo-urethral gland
- D. Corpus spongiosum

Answer:



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13. Semen is composed of

A. Sperm and secretions from seminal vesicle

B. Sperm, secretions of seminal vesicle, prostate gland and Cowper's gland

C. Sperm and secretion from Cowper's gland

D. None of these

Answer:



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14. In human being puberty occurs at the age of

A. 10-12 years

B. 12-13 years

C. 15-20 years

D. 20-22 years

Answer:



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15. Menstruation cycle is controlled by

A. Oestrogen

B. Progesteron

C. Both (a) and (b)

D. None of these

Answer:



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16. The endometrium is the lining of

A. Vas deferens

B. Oviduct

C. Uterus

D. None

Answer:



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17. In whom is testis found inside the abdomen.

A. Elephant

B. Mouse

C. Horse

D. Dog

Answer:



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18. Testes are masses of units of

A. Uriniferous tubule

B. Malpighian tubule

C. vas deferens

D. Seminiferous tubule

Answer:



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19. In human female the structure corresponding to penis is.

A. Urethra

B. Clitoris

C. Glans

D. Vulva

Answer:



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20. What are the nurse cells for spermatozoa.

- A. Leydig cells
- B. Geminal cells
- C. Sertoli cells
- D. Spermatids

Answer:



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21. Androgens are secreted by.

A. Testis

B. Ovary

C. Thyroid

D. Adrenal

Answer:



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22. Inhibin hormone is secreted by.

A. Interstitial cells

B. Sertoli cells

C. Spermatocyte

D. Oocyte

Answer:



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23. Identify the odd one of the following:

A. Infundibulum

B. Fimbriae

C. Labia minora

D. Isthmus

Answer:



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24. Cowper's gland is a part of.

A. Liver

B. Pancreas

C. Male reproductive system of man

D. Female reproductive system of human

Answer:



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25. Fallopian tube is also called .

A. Oviduct

B. Ejaculatory duct

C. Ductus deferens

D. Vagina

Answer:



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26. Acrosome is related to .

A. Ovum

B. Sperm

C. Oocyte

D. Spermatocyte

Answer:



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27. Fertilization in human takes place in:

A. Fallopian tube

B. Uterus

C. Vagina

D. Ovary

Answer:



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28. Which of the following is normally diploid ($2n$)?

A. Spermatids

B. Spermatogonium

C. Secondary spermatocyte

D. Polar body

Answer:



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29. Which is the outermost extra-embryonic membrane ?

A. Amnion

B. Allantois

C. Chorion

D. Yolk sac

Answer:



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30. Menstrual cycle stops during or after:

- A. Gestation period
- B. Lactation period
- C. 45-50 years of age
- D. All of above

Answer:



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31. Synthesis of yolk is known by:

A. Gluconeogenesis

B. Glycolysis

C. Vitellogenesis

D. None of the above

Answer:



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32. Artificial labour can be induced by :

A. Oxytocin

B. Prolactin

C. Thyroxine

D. Corticosterone

Answer:



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33. Which of the following stores and nourishes the sperms ?

A. Ovary

B. Epididymis

C. Oviduct

D. Ureter

Answer:



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34. The process by which spermatids are converted into sperm is called .

- A. Spermioteliosis
- B. Spermiogenesis
- C. Spermatogenesis
- D. Both (a) and (b)

Answer:



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35. In a mature sperm the mitochondria are present in .

- A. Head of sperm
- B. Acrosome of sperm
- C. Neck of sperm
- D. Tail of sperm

Answer:



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36. Clitoris is an outgrowth of which is :

- A. Non-functional penis
- B. Analogous to penis
- C. Homologous to penis
- D. Functional penis in females

Answer:



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37. Archenteron is surrounded by :

A. Ectoderm

B. Endoderm

C. Mesoderm

D. Blastomeres

Answer:



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38. Extrusion of second polar body from egg

occurs :

- A. After entry of sperm before completion of fertilization
- B. After completion of fertilization
- C. Before entry of sperms
- D. Without any relation of sperm entry

Answer:



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39. Which one is correct sequence in the process of development .

A. Cleavage - zygote - fertilization - morula -

blastula - gastrula

B. Fertilization - cleavage - morula - zygote -

blastula - gastrula

C. Fertilization - cleavage - morula - zygote -

gastrula - blastula

D. Fertilization - zygote - blastula - morula-
cleavage - gastrula

Answer:



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40. Placenta of human being is formed by :

A. Amnion

B. Chorion

C. Allantois

D. Allantois, chorion, and uterine wall.

Answer:



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41. Which type of cleavage occurs in the zygote of human female ?

A. Holoblastic and equal

B. Meroblastic

C. Holoblastic and unequal

D. Diploblastic

Answer:



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42. In which stages of development three germ layers are formed ?

A. Gastrula

B. Blastula

C. Coeloblast

D. Morula

Answer:



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43. Estrogen is secreted by :

A. Interstitial cells

B. Granulosa cells of Graafian follicle

C. Germinal epithelium of ovary

D. Pituitary

Answer:



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44. Testes descend into scrotum in mammals
for :

- A. Spermatogenesis
- B. Fertilization
- C. Development of sex organ
- D. None of these

Answer:



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45. Antrum is a cavity of :

A. Ovary

B. Graafian follicle

C. Blastula

D. Gastrula

Answer:



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46. How many sperm are produced from a single primary spermatocyte ?

A. 2

B. 3

C. 4

D. 5

Answer:



47. Mammary gland is a modified :

- A. Sebacious gland
- B. Sweat gland
- C. Cutaneous gland
- D. Scent glands

Answer:



48. Acrosome of spermatozoa is formed from :

A. Lysosome

B. Mitochondria

C. Ribosomes

D. Golgibodies

Answer:



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49. Sequence of hormone during menstrual cycle is .

A. Oestrogen, progesterone and FSH

B. Progesterone, Oestrogen and FSH

C. FSH, oestrogen and progesterone

D. FSH, progesterone and oestrogen

Answer:



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50. How many autosomes are present in a mature human sperm ?

A. 20

B. 22

C. 44

D. 46

Answer:



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51. A cavity in gastrula is .

A. Archenterion

B. Blastocoel

C. Haemocoel

D. Hydrocoel

Answer:



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52. Proliferation of endometrium of uterus is controlled by :

A. Relaxin

B. Oxytocin

C. Progesterone

D. Oestrogen

Answer:



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53. Which one of the following is immortal ?

- A. Somatic cell
- B. Germ cells
- C. Glomerular cell
- D. Pitocytes

Answer:



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54. Which hormone in urine confirms pregnancy ?

A. Progesterone

B. Estrogen

C. Human chorionic gonadotropin

D. Prolactin

Answer:



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55. The Leydig cells secrete :

- A. Glucagon
- B. Androgens
- C. Oestrogen
- D. Lactogen

Answer:



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56. In human fertilization occurs in :

A. Uterus

B. Vagina

C. Fallopian tube

D. Ovary

Answer:



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57. During spermatogenesis, the first meiotic division is observed in :

A. Spermatozoans

B. Spermatids

C. Ootids

D. Primary spermatocytes

Answer:



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58. The cells of Rauber are :

A. Secretory cells of endometrium in uterus

B. Inner cell mass of blastocoel

C. Cells of trophoblast in contact with
inner cell mass of blastocyst

D. Sertoli cells

Answer:



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59. Sperm of animal species A cannot fertilize ovum of species B because .

A. Antifertilization of A and B are not compatible.

B. Antifertilizin of A and fertilizin of B are not compatible.

C. Fertilizin of A and B are not compatible

D. None of above

Answer:



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60. Humans are:

A. Oviparous

B. Viviparous

C. Ovo-viviparous

D. None of these

Answer:



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61. Which of the following is not an accessory sex organ?

A. Testes

B. Epididymis

C. Seminal vesicle

D. Cowper's gland

Answer:



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62. In human fertilization occurs in :

A. Fallopian tube

B. Vagina

C. Uterus

D. Vulva

Answer:



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63. Placenta secretes hormone :

A. hCG

B. Progesterone

C. Estrogen

D. All of these

Answer:



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64. Which of the following is not a gonadotropin?

A. FSH

B. Testosterone

C. hCG

D. LH

Answer:



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65. Which of the following hormones is not a steroid?

A. Progesterone

B. Estrogen

C. Relaxin

D. Testosterone

Answer:



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66. Which of the following is not secreted by the acrosome?

A. Hyaluronidase

B. Fertilizin

C. Zonalysin

D. Acrosin

Answer:



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67. If the Golgi apparatus is not transformed into acrosome, the person may suffer from:

A. High fecundity

B. Globozoospermia

C. Oligospermia

D. Azoospermia

Answer:



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68. Choose the correct answer from the choices given under each bit./Give the answer

in one word only.

_____ is a temporary endocrine gland.

A. Testes

B. Pituitary

C. Thyroid

D. Corpus luteum

Answer:



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69. Relaxin, a protein hormone is secreted from

A. Corpus luteum

B. Placenta

C. Breasts

D. All of these

Answer:



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70. ABP (Androgen binding protein) is secreted from :

- A. Leydig cells
- B. Sertoli cells
- C. Germ cells
- D. Granulosa cells

Answer:



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71. The amnion of mammalian embryo is derived from :

- A. Ectoderm and mesoderm
- B. Endoderm and mesoderm
- C. Mesoderm and trophoblast
- D. Ectoderm and endoderm

Answer:



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72. The difference between spermiogenesis and spermiation is :

A. In spermatogenesis spermatids are formed while in spermiation spermatozoa are formed.

B. In Spermiogenesis spermatozoa are formed while in spermiation spermatids are formed.

C. In Spermiogenesis Leydig cells are formed while in spermiation

spermatogonia are formed.

D. In Spermiogenesis spermatozoa are formed while in spermiation spermatozoa are released from the sertoli cells.

Answer:



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73. Which part of human female reproductive system acts as womb ?



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74. Which cells of Testis secrete testosterone ?



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75. Which hormone of anterior pituitary is responsible for growth, maintenance and

function of gonads ?



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76. Animals having both male and female reproductive organ are called what ?



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77. what structure connects foetus with the uterine wall ?



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78. Through which process a zygote develops into an embryo ?



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79. The foreskin around the glans penis is called what



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80. What term is applied to the sexual cycle in non-primate mammals ?



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81. Name the erectile tissue forming the glans penis .



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82. What term is used for the arrest of reproductive activity of human female at old days ?



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83. What term is applied for the various external genital organs in a woman ?



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84. Which structure of the ovary produces relaxin hormone ?



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85. What term expresses the onset of sexual maturity in boys and girls ?



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86. What is the process by which a living organism produces young once of its own kind ?



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87. Which organ produces male gametes in human?



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88. Which organ produces female gametes in human?



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89. What are the organ producing gametes called ?



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90. What is the scientific term for male gamete ?



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91. What is the scientific term for female gamete ?



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92. What is produced when a sperm fertilizes an ovum ?



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93. What is the fertilization occurring outside the body of the organisms called ?



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94. What is the fertilization occurring inside the body of the organisms called ?



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95. What is the process of union of two gametes completely and permanently called ?



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96. In man , what is the condition called , in whom the testis fails to descend into scrotal sac ?



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97. Name a mammal in which the testis is intra-abdominal.



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98. Which canal connects the cavity of the scrotal sac with the abdominal cavity ?



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99. Name the structure that holds the testis in position within the serotal sac.



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100. What is the abnormality , where the inguinal canal fails to contract or reopens called ?



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101. connective tissue covering the testis called ?



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102. In which tubules sperms are formed ?



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103. Which cells supply nourishment to developing sperms ?



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104. Which cells from the endocrine part of testis ?



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105. Which structure connects testis of man to the wall of scrotal sac ?



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106. Through which duct sperms pass from testis to urethra?



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107. What is constituted by sperm and secretions from seminal vesicle, prostate glands and Bulbourethral glands ?



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108. What is skiny covering on the glans penis called ?



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109. What is the enlarged sensitive tip of the penis termed as ?



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110. What is the period of intense sexual excitement termed as ?



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111. What is the sexual intercourse scientifically termed as ?



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112. Which term describe the connective tissue of ovary in mammals ?



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113. In which structures inside ovary the ovum develops ?



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114. Through which tube egg passes from ovary to uterus ?



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115. Presence of which structure in the female genital system of girls is a proof of virginity ?



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116. At what age menstruation starts in girls ?



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117. What term is used to express start of reproductive capacity in women?



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118. Which term describe the ceasure of reproductive capacity in women ?



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119. On which day after the start of menstruation ovulation occurs in women ?



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120. Where is the ovum fertilized in a woman ?



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121. Which term describes the attachment of fertilized ovum to the uterine wall ?



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122. Implantation of fertilized ovum and its development till birth is expressed by which

term ?



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123. Which hormone prepares the uterine wall for anticipated pregnancy as well as inhibits further maturation of graafian follicles if pregnancy occurs ?



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124. Which scientific term describes birth of young one ?



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125. What scar is left on ovary by the corpus luteum in case of failure of fertilization and pregnancy ?



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126. Which term describes the period of heat in the sexually matured females in mammals other than primates ?



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127. Which term describes the period from conception till child birth ?



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128. What is the gestation period for human?



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129. Which structure in the reproductive system of a women is homologous to penis in men ?



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130. Cowpers gland of male correspond to which gland of female ?



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131. Who discovered human spermatozoa and in which year ?



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132. Technique of testing amniotic fluid for sex determination is known as what ?



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133. Which part in male reproductive system store sperm ?



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134. Secretion of which gland makes the semen alkaline ?



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135. What the protective fluid for embryo of mammals is called ?



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136. What kind of placenta develops in human ?



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137. Where do you find the corpora cavernosa ?



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138. What is the peritoneal connection between ovary and uterus called ?



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139. Which part of the blastula gives rise to germ layers ?



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140. Fill up the blanks with correct answer(s)./

Correct the underlined portion of the sentences :

In humans, fertilization takes place in _____.



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141. The process of release of egg from

Graafian follicle is called _____.



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142. The milk produced during initial stage of lactation is called ____.



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143. Corpus luteum secretes hormone ____.



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144. The period between the fertilization and birth is called ____.





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145. The process which changes the Zygotes to blastula is called_____.



[Watch Video Solution](#)

146. _____ is the cavity of blastocyst.



[Watch Video Solution](#)

147. _____ is the sexual intercourse between male and female sex.



[Watch Video Solution](#)

148. ____ is the process by which the sperm prepares itself to fertilize the ovum.



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149. Cessation of menstrual cycle in female is called_____.



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150. Development of secondary sexual characters in male is controlled by which hormone ?



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151. External genitalia of female is _____.



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152. Scrotum is connected to abdominal cavity through a narrow canal is called _____.



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153. Fill in the blanks

Development of spermatid into mature sperm

is called _____



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154. Cavity of scrotum is called ____.



Watch Video Solution

155. The first menstruation begins at puberty and is called _____.



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156. Animals with self- fertilizing ability is called _____.



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157. Degenerated corpus luteum is called _____.



Watch Video Solution

158. Mature Ovarian follicle is called _____.



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159. _____ is the process of release of sperms into lumen of seminiferous tubules.



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160. _____ is the act of expelling the infant from mother's uterus.



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161. The embryo at 16 - celled stage is known as

_____.



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162. Ovulation takes place in _____.



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163. At menopause, there is a rise in urinary excretion of hormone _____



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164. Graafin follicles are found in _____ of mammals .



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165. What is the role of antimullerian hormone? Where is it secreted from?



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166. FSH and LH are secreted by gland.



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167. Sertoli cells secrete inhibin, activin and _____.



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168. Fill up the blanks with correct answer(s)./

Correct the underlined portion of the

sentences :

Testis determining factor (TDF) is expressed by _____ genes.



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169. Luteinizing hormone stimulates cells of the testis.



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170. The final maturation of the ovarian follicles and ovulation are stimulated by



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171. The prostatic fluid contains an acid called



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172. Prostate Specific Antigens (PSAs) help in the diagnosis of



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173. The peritoneal fold by which the ovary is attached to the broad ligament is called



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174. Primary oocyte gets arrested at stage of meiosis-I.



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175. The primary oocytes is surrounded by _____ cells and thecal cells.



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176. Stromal cells, surrounding the granulosa cells are known as cells.



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177. The egg is ovulated at stage.



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178. Fill in the blanks

The noncellular layer surrounding the primary

Oocyte is known as _____



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179. The inner epithelial lining of the uterus is known as



Watch Video Solution

180. The secondary oocyte is arrested at before fertilisation.



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181. Penetration of spermatozoan into the egg at fertilisation triggers metaphase-II in the secondary oocyte. This phenomenon is known as



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182. Following the failure of fertilisation, the corpus luteum regresses into a structure called



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183. The early development of the ovarian follicles is stimulated by and oestrogen,



[Watch Video Solution](#)

184. Retention of testis in the abdominal cavity.



[Watch Video Solution](#)

185. Fill in the blanks

The region of egg where sperms enter is known as _____



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186. Theca externa is the fibrous covering of the testes.



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187. The Ovum secretes enzyme hyaluronidase.



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188. ZP2 glycoprotein is found in corona radiata.



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189. The mitochondrion in human are paternal origin.



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190. The morula is a hollow sphere of embryo.



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191. Zygote is a single celled haploid cell.



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192. The new born child between 0 and 30 days is called infant.



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193. The baby between 0 month and 12 months is called toddlers.



Watch Video Solution

194. The process of formation of ovum in Graafian follicle is called spermiogenesis.



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195. Sterility of man results if sperms are mobile.



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196. The lower part of uterus is vagina.



Watch Video Solution

197. The rapid mitotic division of zygote is called fertilization.



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198. Degeneration of ovarian follicles is called oogenesis.



[Watch Video Solution](#)

199. Intermixing of paternal and maternal chromosomes is called capacitation.



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200. The inner glandular lining of the uterus is
stoma.



Watch Video Solution

201. The implantation is the process of release
of semen into vagina of female.



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202. Development of unfertilized egg of an organism is called anisogamy.



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203. A period of sexual maturity is called menopause.



Watch Video Solution

204. The process of formation of yolk in the ovum is called parthenogenesis.



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205. Vagina is the house where the foetus gets food and shelter.



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206. The testicular arteries and veins form Meisner's plexus.



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207. The seminal fluid contains a monosaccharide as the energy-source.



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208. The passage through which both the urine and semen are discharged.



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209. Correct the statement Fertilization is the forcible expulsion of semen through urethra.



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210. Globozoospermia is the low count of sperms in human semens.



Watch Video Solution

211. Human egg is



Watch Video Solution

212. correct the statement by changing the underline word A glycoprotein layer between

oocyte and corona radiata is called theca externa.



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213. correct the statement. The counter current heat exchange mechanism operates in mammalian ovary.



[Watch Video Solution](#)

214. Correct the statement by changing the underline word. Tunica albugenea is the loose connective tissue in ovary.



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215. Corona radiata is made up of interstitial cells.



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216. FILL UP THE BLANKS : In female, fertilization takes place in ___ of fallopian tube.



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217. In human, menstrual cycle cease around 45-50 years of age termed as puberty.



Watch Video Solution

218. Colostrum contains immunoglobulin-E.



Watch Video Solution

219. Human placentas is zonaria.



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220. What is spermiogenesis?



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221. What are functions of Sertoli cells ?



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222. Restrict to 2 or 3 important sentence.

What is spermiation ?



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223. What is placenta ?



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224. What are the functions of placenta ?



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225. Placenta acts as an endocrine gland.
Explain.



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226. What is the role of AMH during the development of a foetus ?



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227. Explain, what is puberty?



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228. Name two gonadotrophin and write their place of secretion.



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229. What is the function of the prostate gland?



Watch Video Solution

230. What are the composition of seminal plasma ?



Watch Video Solution

231. Corpus luteum



Watch Video Solution

232. What are the functions of epididymis?



Watch Video Solution

233. What is the role of acrosome in fertilisation?



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234. What are functions of granulosa and thecal cells ?



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235. What do you understand by follicular atresia? Where does it occur?



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236. How is the mammary gland hormonally regulated?



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237. Describe the major role of LH in both male and female.



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238. What is a cremasteric reflex?



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239. Explain the counter-current heat exchange mechanism in human testis.



[Watch Video Solution](#)

240. What is Blood testis barrier ?



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241. Accessory sex organs



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242. Explain LH surge.



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243. Is a Y-chromosome essential for the development of testis in human? Explain.



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244. (Restrict to 2 or 3 important sentences)

What is amphimixis ?



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245. What is the significance of fertilization ?



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246. Explain role (or importance) of fertilizin and antifertilizin.



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247. Draw a labelled diagram of human sperm (no description needed).



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248. Differentiate between : Corpus luteum and corpus albicans.



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249. Differentiate between : Spermatogenesis and Spermiogenesis



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250. Differentiate between : Spermatogenesis and oogenesis



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251. Differentiate between : Vas deferens and Vas efferentia



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252. Differentiate between Sertoli cell and Leydig cell. (Restrict your answer 3 or 4 important differences).



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253. Follicular phase and Luteal phase



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254. Differentiate between : Proliferative phase and Secretory phase



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255. Differentiate between : Estrous cycle and menstrual cycle



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256. Differentiate between : Primary sex organ and secondary sex organ



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257. Differentiate between : Testis and Ovary



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258. Differentiate between sperm and ovum.



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259. In the male reproductive system:



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260. Describe the reproductive system in human female.



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261. Describe the process of Spermatogenesis.



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262. Describe the process of Oogenesis.



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263. Write short note on spermiogenesis.



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264. Write short note on Fertilization



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265. Write short notes on : Menstrual cycle



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266. Write short notes on : Implantation



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267. Write short notes on : Parturition



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268. Write a note on seminiferous tubules.



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269. Draw a neat labelled diagram of T.S. of ovary of human female.



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270. Draw a labelled diagram of a Graafian follicle.



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271. Draw a labelled diagram of human sperm (no description needed).



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272. Draw a labelled diagram of male reproductive system.



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273. Draw a well-labelled diagram of human female reproductive organ.



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