



## **BIOLOGY**

## BOOKS - USHA BIOLOGY (ODIA ENGLISH)

## HUMAN REPRODUCTION



**1.** In which of the following parts of the male reproductive system, sperms are stored and

nourished inside?

A. Epididymis

B. Testis

C. Seminiferous tubules

D. Vasa efferentia

**Answer:** 

2. Which of the following hormones is responsible for inducing both spermatogenesis and oogenesis ?

A. FSH

- **B. Progesterone**
- C. Testosterone
- D. Estrogen

#### Answer:



**3.** Which of the following helps in the penetration of a sperm in to egg?

A. Fertilizin

B. Antifertilizin

C. Spermlysin

D. None of thest

#### Answer:

4. Expanded proximal part of oviduct in human

female is.

A. Uterus

B. Fimbricated funnel

C. Vestibule

D. Fallopain tube

#### Answer:

**5.** Labia majora of a female mammal is homologous to.

A. Penis

B. Epididymis

C. Scrotal sac

D. Prostate gland

#### Answer:

6. The capsule enclosing testis of human is.

A. Tunica vasculosa

- B. Theca externa
- C. Tunica vaginalis
- D. Tunica albuginea

#### Answer:



7. In mammals, failure of testis to descend into

the scrotum is known as \_\_\_\_\_

A. Cryptorchidism

**B.** Castration

C. Impotency

D. Paedogenesis

#### Answer:

#### 8. Seminiferous tubules occur in \_\_\_\_\_

A. Liver

B. Kidney

C. Testis

D. Ovary

Answer:

9. Which one of the following is concerned

with a sexual reproduction ?

A. Zygote

B. Spore

C. Gamete

D. Gonad

#### Answer:

10. Fusion of dissimilar gametes is

A. Allogamy

B. Anisogamy

C. Autogamy

D. Polygamy

Answer:

**11.** Which one of the following is a secondary

sexual character\_\_\_\_\_

A. Ovary

B. Thyroid

C. Pituitary

D. Breast

#### **Answer:**

12. Which one is the Primary Sex-organ \_\_\_\_\_

A. Testis

B. Scrotum

C. Prostate

D. Penis

**Answer:** 



**13.** Sertoli cells are found in\_\_\_\_\_ of mammals .

### A. Epididymis

- B. Seminiferous tubules
- C. Germinal epithelium
- D. Ovary

#### **Answer:**

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14. Location of Leydig cells and their secretion

are.

A. Ovary - estrogen

B. Pancreas - glucagon

C. Testis - Testosterone

D. Liver - Cholesterol

#### Answer:

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**15.** About which day in a normal human menstrual cycle does rapid secretion of LH normally occurs ?

A. 14th day

B. 20th day

C. 5th day

D. 11th day

#### **Answer:**

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16. What type of cells divide to form sperms

and ova ?

- A. Cuboidal cells
- B. Squamous cells
- C. Columnar cells
- D. Stratified cells

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**17.** Which of the following is/are formed during gastrulation ?

- A. Capacitation
- **B.** Insemination
- C. Copulation
- D. Fertilization



18. Which of the following hormone promotes

accessory sexual characters in female ?

#### A. Androgen

- **B.** Progesterone
- C. Oestrogen
- D. Testosterone

#### **Answer:**



**19.** Proliferation of endometrium of uterus is controlled by :

#### A. Oxytocin

#### B. Relaxin

- C. Progesterone
- D. LH

#### Answer:



**20.** Which of the following represents a condition where motility of sperms is highly reduced?

- A. Oligespermia
- B. Azospermia
- C. Polyspermy
- D. Asthenospermia



**21.** Which of the following is/are formed during gastrulation ?

- A. Ectoderm and Endoder
- B. Endoderm
- C. Mesoderm
- D. Ectoderm, mesoderm and Endoderm

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**22.** Gubernaculum is the ligamentous connective cord which connects -----

- A. Tistis to scrotum
- B. Ovary to body wall
- C. Tistis to abdominal wall
- D. The two muscles

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23. Spermatozoa matures in -----

A. Epididymis

B. Vas deferens

C. Prostate

D. None of these

#### Answer:

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**24.** The duct which carries sperms from testis and epididymis to the penis is ----

A. Vasa efferentia

B. Vasa deferentia

C. Ureter

D. Seminiferous tubules

Answer:

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**25.** The foreskin around the glans penis is called what

A. Corpus spongiosum

- B. Corpus cavernosa
- C. Epididymis
- D. Prepuce

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**26.** Generally, what is the site of fertilisation in human being? (Vagina, Uterus, Fallopian tube and Ovary)

A. Vagina

B. Uterus

C. Fallopian tube

D. Ovary

#### **Answer:**

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27. On which day of normal menstrual cycle,

ovulation occurs?

A. 1st day

B. 5th day

C. 14th day

D. 28th day

#### **Answer:**

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28. Penetration of ovum by sperm during

fertilization is assisted by -----

#### A. Centrosome

- B. Mitochondria
- C. Acrosome
- D. None of these

#### **Answer:**



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

A. Inguinal canal

- B. Gubernaculum
- C. Coelom
- D. Vas deferens

#### **Answer:**



30. During fertilisation, the sperm's acrosome

releases .....

A. Pepsin

B. Trypsin

C. Hyaluronidase

D. All of these

#### **Answer:**

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31. Which part of the sperm enters into the

egg during fertilization ?

A. Head

B. Tail

- C. Middle Piece
- D. Neck

#### Answer:



32. The fusion of the pronuclei of sperm and

ovum is known as -----

- A. Fertilization
- B. Amphimixis
- C. Hernimixis
- D. Transduction



# **33.** Which type of cleavage occurs in the zygote of human female ?

- A. Holoblastic& equal
- B. Meroblastic
- C. Holoblastic& Unequal
- D. Diploblastic

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**34.** Mature ovum enters fallopian tube through

#### A. Nephrostome

B. Ostium

C. Vagina

D. Ureter

#### Answer:



**35.** Which extra emboryonic membrane in human prevents desiccation of the embryo inside the Uterus ?

A. Yolk sac

B. Amnion

C. Chorion

D. Allantois

#### Answer:

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**36.** A change in amount of Yolk and its distribution in the egg will affect ----

- A. Pattern of cleavage
- B. Number of blastomeres
- C. Fertilization
- D. Formation of Zyyote.

#### **Answer:**



**37.** The first movement of the foetus and appearance of hair on its head are usually observed during which month of pregnancy ?

A. Fourth Month

B. Fifth Month

C. Sixth Month

D. Third Month

#### **Answer:**

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**38.** During which stage of oogenesis the number of chromosomes is reduced to half?

A. Formation of second polar body

B. Meioss - II

C. Division of Secondary oocyte

D. Formation of first Polarbody

Answer:

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39. Which germs layers develop into liver and

pancreas.

## A. Ectoderm

- B. Mesoderm
- C. Endoderm
- D. Both a and c

#### **Answer:**



# 40. Notochord develops from which embryonic

layer?

## A. Ectoderm

- B. Mesoderm
- C. Endoderm
- D. All

#### Answer:



41. Mammalian placenta is formed from

A. Yolk sac

B. Chorionic allantois

C. Chorion

D. Amnion

Answer:

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**42.** In a mature sperm the mitochondria are persent in .

A. Tail

## B. Acrosome

C. Middle piece

D. head

#### Answer:

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**43.** Which of the following structure is ectodermal in ogrin ----.

A. Kideny

B. Brain

C. Lungs

D. Liver

Answer:

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44. Sertoli cells provide nutrition to----.

A. Ovum

B. Sperm

C. Embryo

D. None of these

## Answer:



# 45. Which one of the following develops into

corpus luteum after ovulation?

A. Oocyte

B. Graaffian Follicle

C. Corpus albicaus

D. None of these

#### Answer:



46. The leydig's cells as found in the human

body are the secretory sources of :

A. Progesterone

B. Glucagon

C. Androgen

D. Estrogen

## **Answer:**



# 47. The product of first maturation division in

testis is known as-----.

A. Spermatid

B. Oocyte

C. Secondary Spermatocyte

D. Sperm

## Answer:



# 48. Development of spermatozoa is stimulated

by which hormone?

A. FSH

B. LH

C. MSH

D. TSH

#### Answer:



49. The region where sperm enter the egg is

called-

A. Equator

B. Reception cone

C. Animal pole

D. Vegetal pole

## Answer:

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**50.** During fertilisation through which path the male pronucleus moves to meet the female pronucleus?

A. Penetration path

**B.** Copulation Path

C. Fertilization Path

D. None of these

## Answer:

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## 51. How many spermatozoa are formed from

one secondary spermatocyte ?

## A. Four

B. Eight

C. One

D. Two

## Answer:

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52. During spermatogenesis, the first meiotic

division is observed in :

A. Oogonia

B. Primary oocyte

C. Secondary oocyte

D. Polar body

Answer:

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53. The process of yolk synthesis is known as---.

A. Histogenesis

B. Oogenesis

# C. Vitellogenesis

D. None

## Answer:

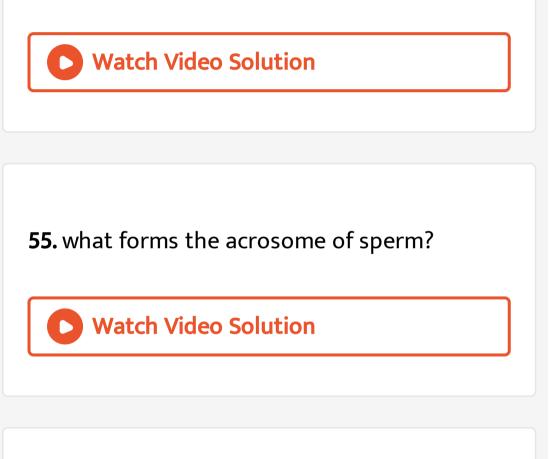


# 54. What type of placenta is found in humans?

- A. Haemochorial
- B. Epitheliochorial
- C. Syndesmochorial

## D. None

## Answer:



**56.** Which one is unpaired gland in male reproductive system?

- A. Seminal vesicle
- B. Prostate gland
- C. Cowper's gland
- D. None of these

#### **Answer:**



# **57.** Which part of epididymis receives vasa efferentia?

A. Caput

- B. Corpus
- C. Cauda
- D. None of these

#### Answer:



58. What is the number of chromosomes in

the following cells of a human male?

(i) Spermatogonial cells

(ii) Spermatids

(iii) Primary spermatocytes

(iv) Sertoli cells

A. 23 pairs

B. 22 pairs

C. 23

D. 22

#### **Answer:**

59. What is the enlarged sensitive tip of the

penis termed as ?



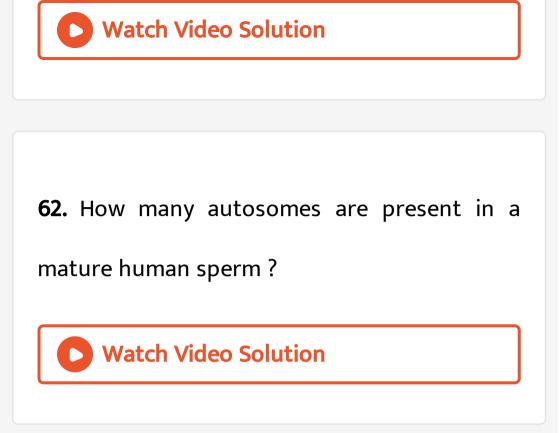
60. Which term describes the attachment of

fertilized ovum to the uterine wall ?

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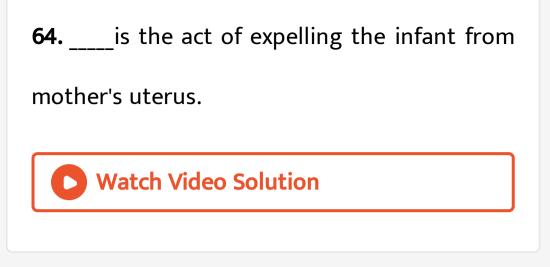
61. Secretion of which gland makes the semen

alkaline ?



63. What is the importance of Golgi body in

spermatozoa?



**65.** Which cells of testis secretes androgen binding protein (ABP) that concentrates testosterone in the seminiferous tubules of human male ?

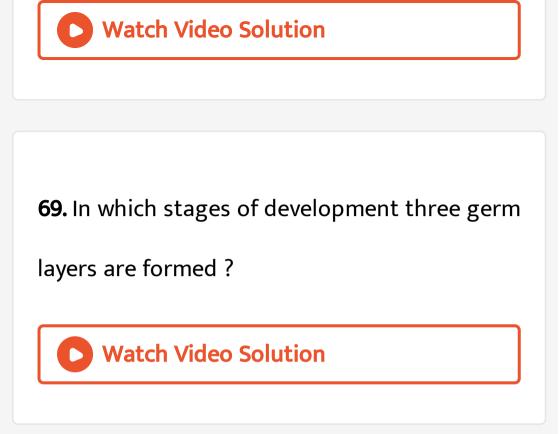
66. What type of acid is present in the prostatic fluid of humale male ?

67. Whch gland secretion of human male

forms seminal plasma ?

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**68.** \_\_\_\_\_is the process of release of sperms into lumen of seminiferous tubules.



# 70. In which phylum, organisms reproduce by

binary fission ?

71. Which gland of human male is equivalent

to the Bartholin's gland of human female?



72. What is the covering present around the

testis of man ?

73. What is the normal duration of menstrual

cycle in woman?

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74. Which structure connects the embryo with

the chorion of placenta in human ?

75. Which hormone in urine confirms pregnancy?
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**76.** What is the first milk which comes out from

the mammary glands of the mother just after

child birth?

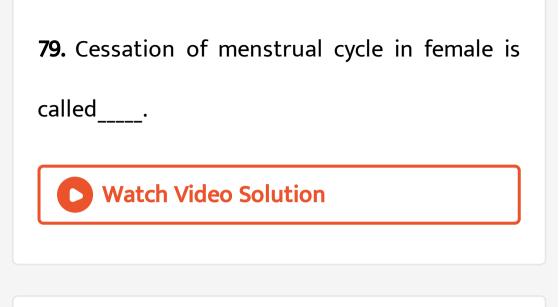
77. What the protective fluid for embryo of

mammals is called ?

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78. Through which process a zygote develops

into an embryo?



**80.** What is the starting of menstruation in girls celled ?



81. What term expresses the onset of sexual

maturity in boys and girls ?

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82. Which structure of the ovary produces

relaxin hormone ?

83. Name the structure that holds the testis in

position within the serotal sac.



84. Which canal connects the cavity of the

scrotal sac with the abdominal cavity?



85. How many sperm are produced from a

single primary spermatocyte ?

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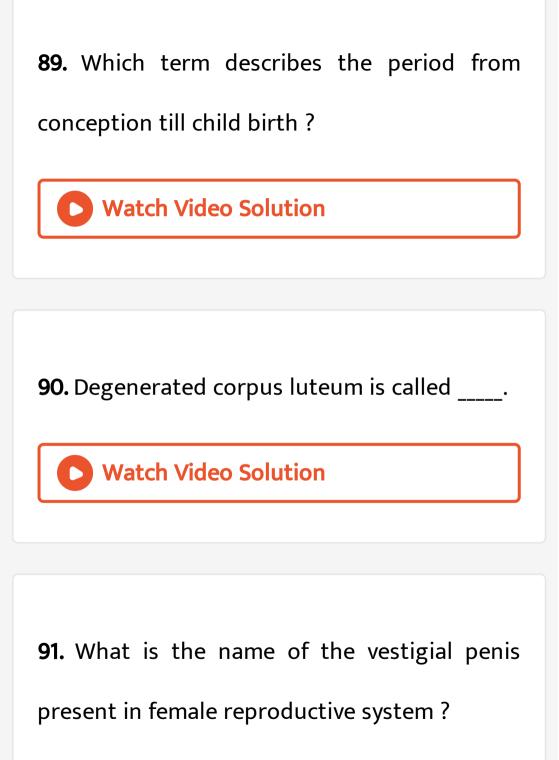
86. How many ova will be produced by one

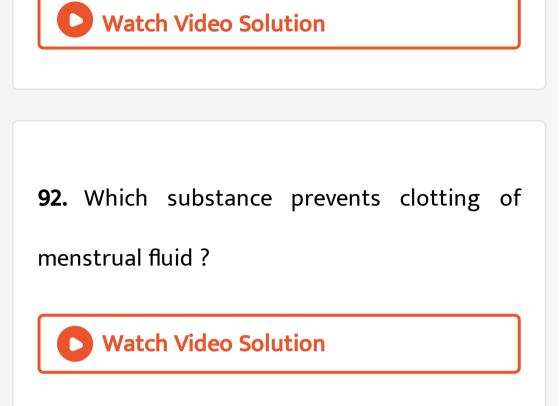
fully grown primary oocyte?

**87.** The region where sperm enter the egg is called-

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**88.** What is the phenomenon of embryonic development and hatching without fertilization?





93. The uterine layer that is sloughed off

during menstrual cycle.

94. What is the number of chromosornes in

the polar body of human ?



**95.** Which is the outermost extra-embryonic

membranc?

96. Which part of the sperm dissolves the egg

membrane during fertilization ?

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97. The non-cellular layer surrounding the

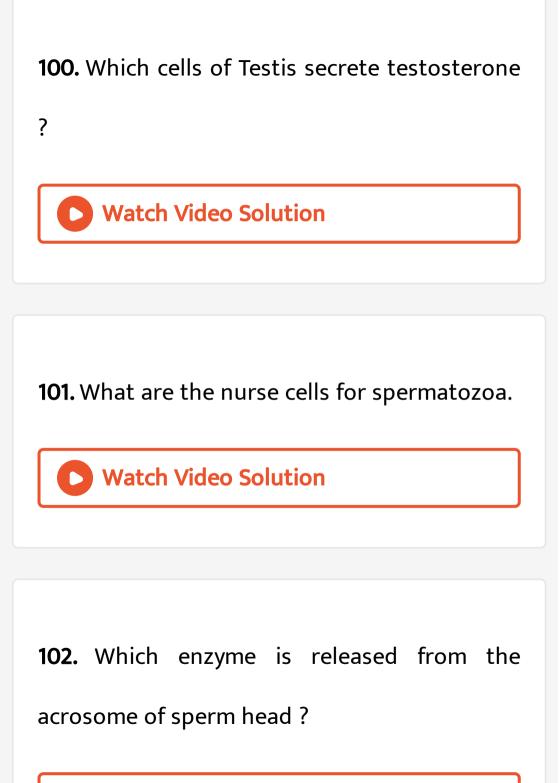
primary oocyte is known as ......

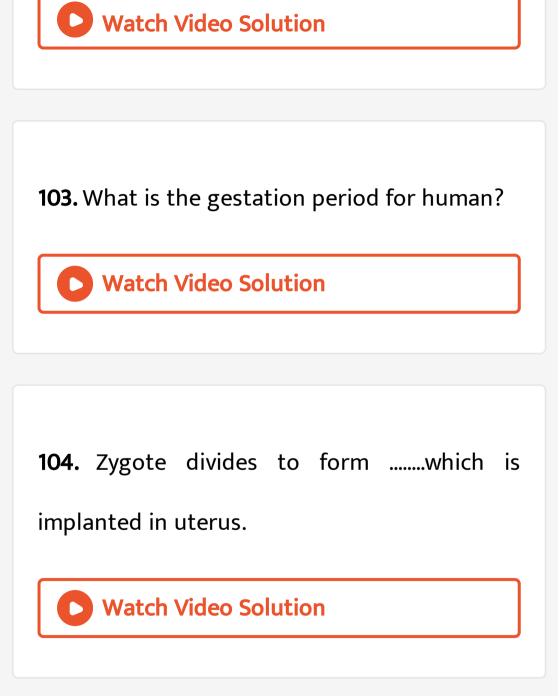
**98.** Name the embryonic stage that gets implanted in the uterine wall of the human female. Also draw its diagram.



## **99.** The process by which spermatids are converted into sperm is called .







105. FILL UP THE BLANKS : The structure which

provides vascular connection between foetus

& uterus is called \_\_\_.



#### 106. FILL UP THE BLANKS : The cytoplasmic

organelle \_\_ is associated with cortical granule

formation in sperm cell.

107. Centrioles are located in ...... part of the

sperm,



**108.** FILL UP THE BLANKS : The acrosome contains \_\_\_\_ enzyme in mamals which helps in penetration of sperm.



109. FILL UP THE BLANKS : Surgical removal of

uterus of females is called \_\_\_.

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110. FILL UP THE BLANKS : The sperm donates

\_\_\_ to the egg during fertilization that takes

part in the formation of nuclear spindle.

**111.** FILL UP THE BLANKS : The development of an egg into an embryo without its union with the sperm is called \_\_\_\_.



#### 112. FILL UP THE BLANKS : The entry of sperm

into the vagina is called \_\_\_.



113. Which is structural and functional unit of

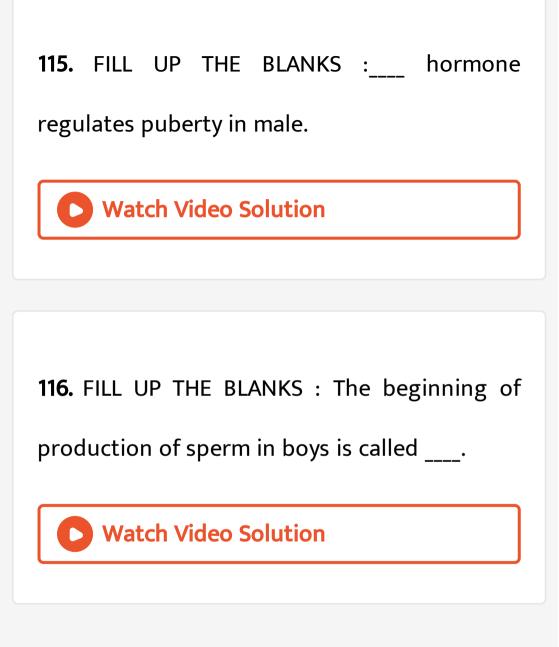
testis



114.	FILL	UP	THE	BLANKS	:	hormone

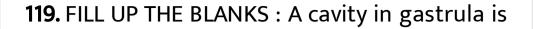
regulates the changes of uterine

endometriom during pregnacy.



# 117. FILL UP THE BLANKS : In female, fertilization takes place in \_\_\_ of fallopian tube. Watch Video Solution 118. FILL UP THE BLANKS : Germ hill is found in

\_\_\_ of ovary.



called \_\_\_.

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120. FILL UP THE BLANKS : The male and female

pronuclie is called \_\_\_.

#### 121. FILL UP THE BLANKS : \_\_\_\_ hormone

stimulates mammary gland for milk secretion.



#### **122.** FILL UP THE BLANKS : \_\_\_\_ hormone

stimulates corpus luteum of ovary to produce

progesterose.

#### 123. FILL UP THE BLANKS : HCG/Human

Chorionic Gonadotropin is secreted from \_\_\_\_.

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#### 124. FILL UP THE BLANKS : The beginning of

production of sperm in boys is called \_\_\_\_.

125. FILL UP THE BLANKS : Abnormal smallness

of breasts and mammary glands is called \_\_\_\_.

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126. Give the name of membrane that covers

the vaginal opening in the virgin.

127. What is the other name of trophoblast

cells lying over the embryonic disc?



#### 128. The process of yolk synthesis is known as--

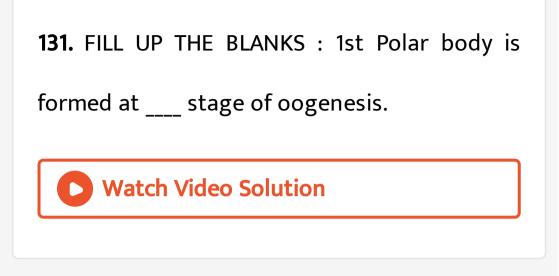


**129.** FILL UP THE BLANKS : \_\_\_\_ foetal membrane takes part in the formation of placenta in human.



#### 130. The sertoli cells are regulated by which

hormones of pituitary?



# **132.** FILL UP THE BLANKS : In the male repreductive system, sperms are concentrated

in the \_\_\_\_.

**133.** FILL UP THE BLANKS : The presence of functional mammary glands in the male persons is called .

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#### 134. FILL UP THE BLANKS : The surgical removal

of testis is called \_\_\_\_.

135. FILL UP THE BLANKS : The absence of living

sperms in semen of male person is called \_\_\_.

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136. FILL UP THE BLANKS : The abnormal small

size of breast or mammary glands in female is

called \_\_\_\_.

**137.** FILL UP THE BLANKS : The unicellular zygote undergoes cleavage to form a solid ball of cells called .



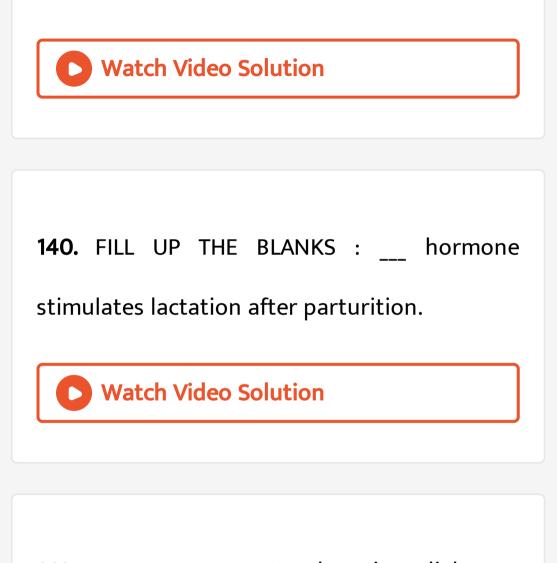
#### 138. FILL UP THE BLANKS : Implantation is the

attachment of \_\_\_\_ to the wall of the uterus of

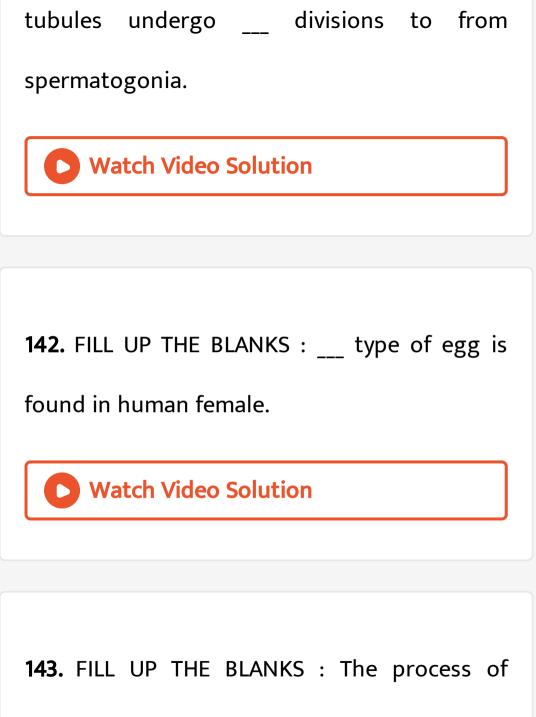
the mother.



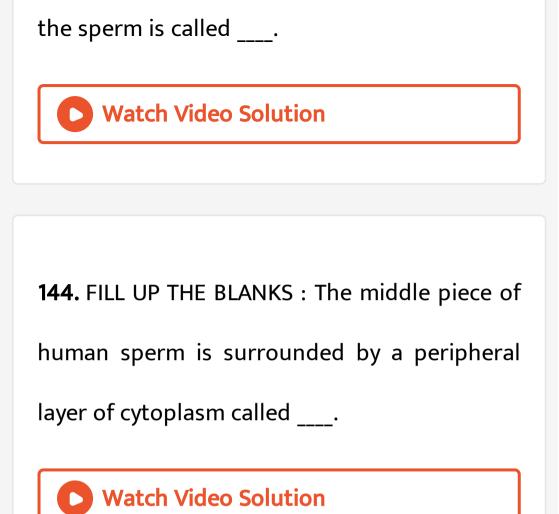
**139.** Artificial labour can be induced by :



**141.** FILL UP THE BLANKS : The primordial germ cells in the inner lining of seminiferous



acquiring the capacity to fertilize the egg by



## **145.** The covering of egg is called ...... membrane.



### 146. FILL UP THE BLANKS : The process by

which the unfertilized egg develops into a

complete embryo is called \_\_\_\_.



#### 147. FILL UP THE BLANKS : The outermost layer

of uterine wall is called \_\_\_\_.

**148.** FILL UP THE BLANKS : The process of

release of spermatozoa from the seminiferous

tubule is called \_\_\_.

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149. Difference between: Asexual Reproduction

and Sexual Reproduction.

150. Difference between: External fertilisation

and Internal fertilisation.

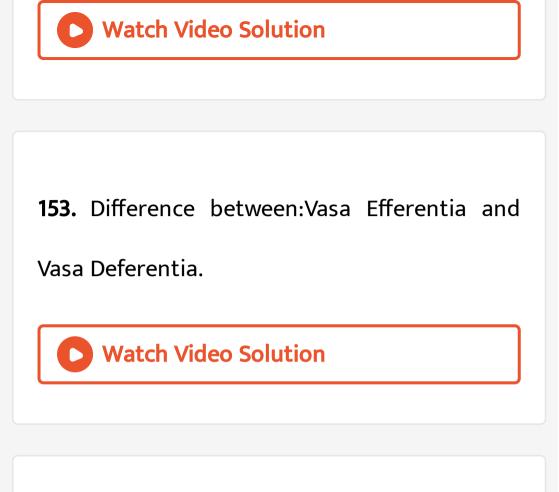


151. Difference between:Asexual Reproduction

and Sexual Reproduction.

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**152.** Difference between:Binary fission and Multiple fission.



154. Difference between:Graafian follicle and

Corpus luteum.

155. Difference between: Multiple Fission and

Sporulation.



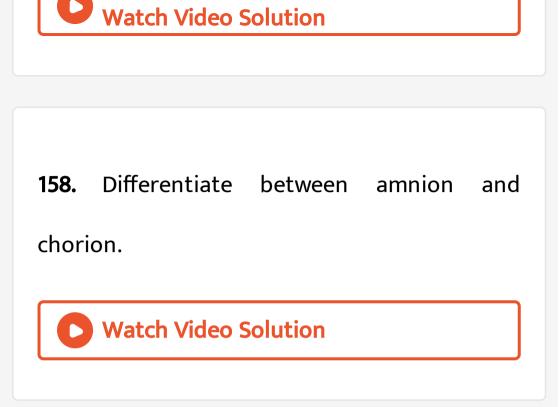
**156.** Distinguish between fertilizin an

antifertilizin.

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**157.** Difference between:Blastula and Gastrula.





159. Difference between:Corpus luteum and

Corpus albicans.

160. Difference between:Gametogenesis and

Embryogenesis.



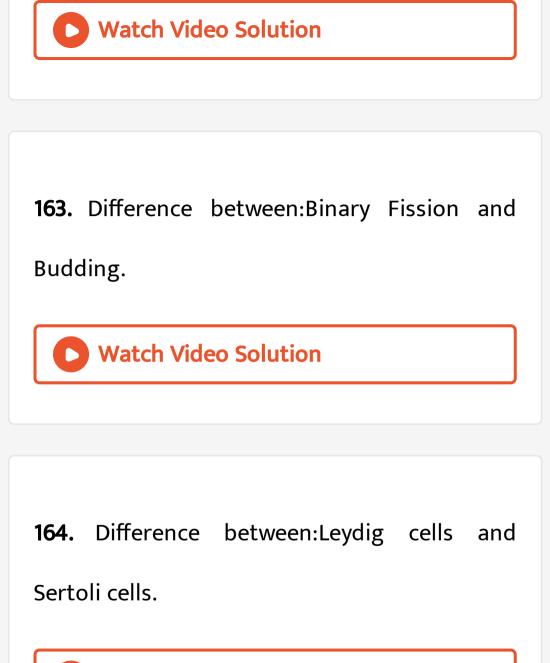
161. Difference between:Fertilisation and

Parthenogenesis.

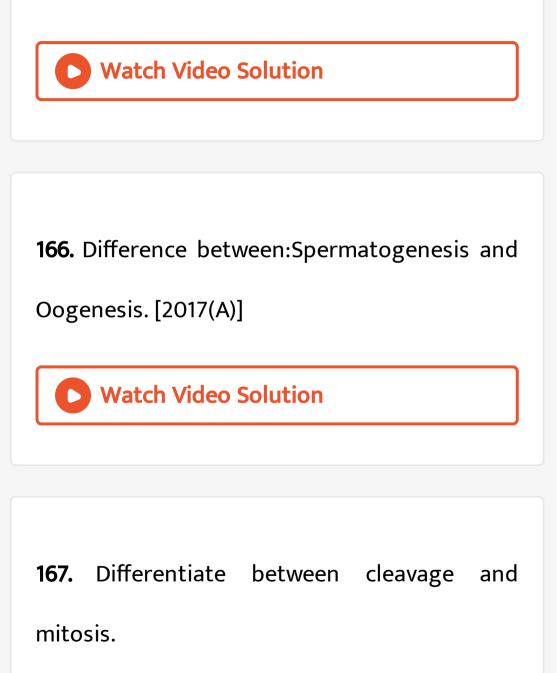
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162. Differentiate between : Estrous cycle and

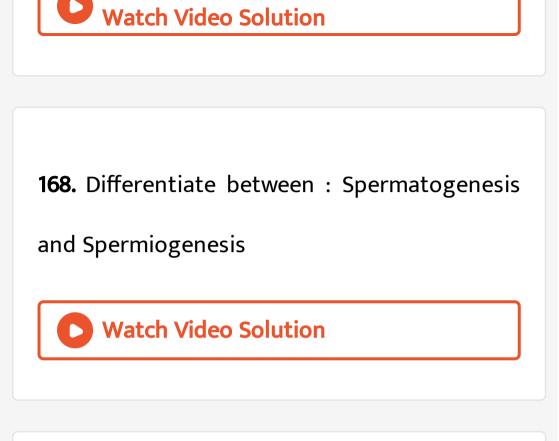
menstrual sycle



165. Difference between:Sperm and Ovum





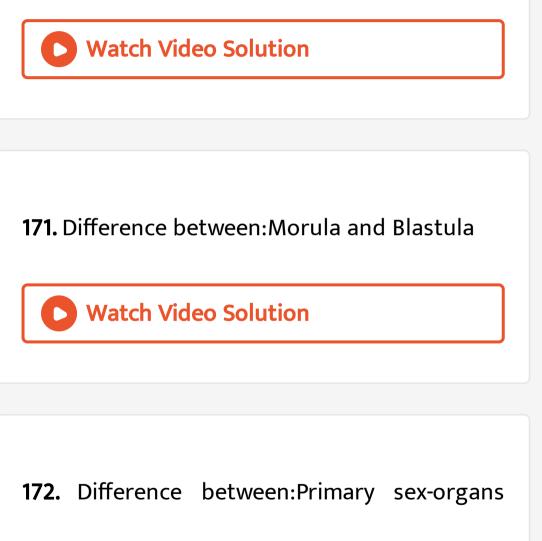


**169.** Difference between:Menarche and

Menopause

170. Difference between:Spermatocytes and

Oocytes.



and secondary sex-organs.



#### 173. Difference between:Endometrium and

Myometrium.