

# **BIOLOGY**

# **BOOKS - SHARAM PUBLICATION**

# **REPRODUCTION**

Exercise

1. Micropyle occurs in \_\_\_\_\_

A. ovary

B. seed

C. ovule

D. both b and c

# **Answer:**



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2. Route used by pollen tube for entering ovule is

-----

A. Integument

B. Micropyle

C. Chalaza

D. Any of the above



# **Watch Video Solution**

- **3.** Sporopollenin occurs in\_\_\_\_\_
  - A. female gametophyte
  - B. male gametophyte
  - C. vegetative cells of pollen grains
  - D. exine of pollen wall

# **Answer:**



A. Pollen cell
B. Generative cell
C. Pollen tube well
D. Pollen mother cell
Answer:
Watch Video Solution
5. Type of pollination , where animals act as pollinting
agent

**4.** The male gametes are formed from...... cell.

A. Entomophily B. Hydrophily C. Zoophily D. Anemophily **Answer: Watch Video Solution** 6. Ovule integument gets transformed into: A. seed B. seed coat C. fruit wall

D. cotyledons

# **Answer:**



**Watch Video Solution** 

7. In nature, cleistogamous flowers are:

A. Wind pollination

B. insect pollinated

C. bird pollinated

D. self pollinated

### **Answer:**

U	Watc	h Vid	leo S	olut	ion
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8. Cross pollination is also call	led
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- A. Autogamy
- B. Allogamy
- C. Chasmogamy
- D. Cleistogamy



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**9.** Which is not the accessory whorl of the flower?

A. Calyx
B. Corolla
C. Androecium
D. Perianth
Answer:
Watch Video Solution
10. Which is part of male reproductive unit of flower?
A. Filament
B. Ovary
C. Style

D. Stigma

# **Answer:**



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11. Which is the correct statement?

A. Shoot of Indeterminate growth

B. Shoot of determinate growth

C. Highly condensed internodes

D. Floral parts are modified leaves.

### Answer:

- A. bracteole
- B. pedicel
- C. stipule
- D. Bract



**13.** The layer which helps in the dehiscence of microscope is

A. epidermis

B. endcothercium

C. middle layers

D. Tapetum

# **Answer:**



**Watch Video Solution** 

**14.** The wall layers that helps in the nourishment of microspores is

A. epidermis
B. endothecium
C. middle layers
D. Tapetum
Answer:
Watch Video Solution
15. In how many celled stage does pollination generally
occur?
A. 2
B. 3

- C. 4
- D. 8



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# 16. The stalk of the Ovule is called

- A. Petiole
- B. pedicel
- C. funicle
- D. Penduncle



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- 17. Which one is normally seen among angiosperms?
  - A. anatropous
  - B. orthotropous
  - C. Campylotropous
  - D. Hemitropous

# **Answer:**



**18.** How many celled embryo sac is seen among angiosperms.

- A. 4
- B. 7
- C. 16
- D. 64

# **Answer:**



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19. Which does make egg apparatus?

- A. Synergids + antipodals
- B. antipodals+ central cell
- C. synergids + egg cell
- D. egg cell + central cell



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**20.** Pollens from one flower when transferred to the stigma borne by another flower of the same plant, it is called

A. autogamy

- B. allogamy
- C. xenogamy
- D. Geitonogamy



- 21. In which case shall there be always geitonogamy
  - A. Flowers unisexual
  - B. Flowers hermophrodite
  - C. Flowers with anthers and carpels maturing
    - simutlaneously

D. flowers borne on dioecious plants

# **Answer:**



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**22.** Flowers which open and expose their reproductive organs to pollinating agents are called

- A. Cleistogamous
- B. Chasmogamous
- C. Homegamous
- D. dichogamous

# Watch Video Solution

**23.** Which is not an adaptation of entomophilous flowers?

A. colour

B. nectar

C. enormous number

D. scent

# **Answer:**



24.	In	which	case	are	unisexul	flowers	ensheathed	by
spa	the	es.						

- A. Maize
- **B.** Impatiens
- C. Ficus
- D. sun flower



- A. Dicliny
- B. Dichogamy
- C. Homogamy
- D. self incompatibility



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**26.** What are the advantages and disadvantages of cross pollination?

A. healthier offsprings. B. Adapted offsprings C. hybrids produced D. damage to pollens **Answer: Watch Video Solution** 27. The entry of pollen tube through the micropyle is A. porogamy B. chalazogamy C. mesogamy

D. herkogamy

# **Answer:**



**Watch Video Solution** 

28. Entering of pollen through integuments is called

A. porogamy

B. autogamy

C. chalazogamy

D. mesogamy

### **Answer:**

**29.** When male and female flowers borne on separate plants, the condition is called

- A. monoecious
- B. dioecious
- C. polygamous
- D. homogamous

# **Answer:**



<b>30.</b> Which is the first called of sporophytic generation
A. embryo
B. zygote
C. proembryo
D. endosperm
Answer:
Watch Video Solution
<b>31.</b> Which is the last cell of female sporophytes-
A. ovary

C. megaspore mothe cell D. nucellus **Answer: Watch Video Solution** 32. What is the fusion product of male gamete and central cell? A. zygote B. embryo C. primary endosperm cell

B. microspore

D. zoospore

# **Answer:**



Watch Video Solution

**33.** How many nuclei do form male gametoyptes in angiosperms.

- **A.** 2
- B. 3
- C. 4
- D. 6

# **Watch Video Solution**

**34.** What type of spore tetrads are seen is megaspore formation?

- A. Tetrahedral
- B. isobilateral
- C. Linear
- D. T-shaped

# **Answer:**



**35.** The embryo sacs are

A. 8 called & 8 nucleate

B. 8 celled 4 nucleate

C. 7 celled and 8 nucleate

D. 8 clled & 7 nucleate

# **Answer:**



**36.** In which types of endosperm are the first division cellular?

A. nuclear & cellular

B. cellular and helobial

C. nuclear & helobial

D. Nuclear

# **Answer:**



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37. Mature dicot embryo does not contain

- A. Two cotyledons
- B. embryonal axis
- C. hypocotyl
- D. Coleorhiza



- **38.** Which is abesnt in apomixis.
  - A. Syngamy and meiosis
  - B. vegetative propagation
  - C. asexual reproduction

D. failure of gamete produced

# **Answer:**



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**39.** Which one does not signify parthenocarpy?

A. Fruit development form nucellus

B. Fruit development from egg cell without fertilization

C. Double fertilization and triple fusian in fruit development.

D. Seedless fruit development.



**Watch Video Solution** 

- **40.** Apomixis on plant means, development of a plant :
  - A. double fertilization
  - B. triple fusion
  - C. unfertilized eggs
  - D. endosperms

# **Answer:**



A. chalaza
B. Hilum
C. Micropyle
D. Funicle
Answer:
Watch Video Solution
<b>42.</b> True polyembryony occurs in
A. synergid

**41.** The point of attachement of Ovule is called

B. antipodal cell C. central nucleus D. embryo from **Answer: Watch Video Solution 43.** An aggregate fruit is one which develops from: A. Ovule B. Ovary C. Thalamus D. Penduncle



**Watch Video Solution** 

**44.** Correct the statement if required.

Floral axis bearing floral organs is called pedicel.



**Watch Video Solution** 

**45.** Correct the statement if required by changing of underlined words only.

Androecium and corolla are essential whorls.



46. Correct the statement.

Androecium and gynoecium are accessory whorls.



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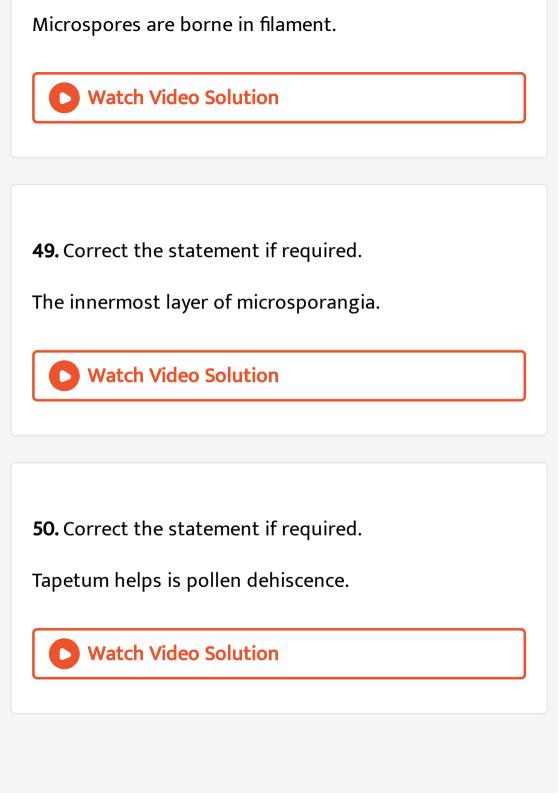
47. Correct the statement.

When male and female flower are born separately is the same plants, its is dioecious.



**Watch Video Solution** 

**48.** Correct the statement if required by changing of underlined words only.



Exine is made of Cellulose.



**Watch Video Solution** 

**52.** Correct the statement if required by changing of underlined words only.

In microspore are liberated form microsporangia at 2 celled stage.



Receptive portion of pollens in carpel is Ovary.



**Watch Video Solution** 

**54.** Correct the statement if required by changing of underlined words only.

Inverted Ovules are, otherwise, called Orthotropous.



The opening is the Ovule by integumnet is hilum.



**Watch Video Solution** 

**56.** Correct the statement if required by changing of underlined words only.

The point of attachment is hilum.



Triple fusion product is antipodals.



**Watch Video Solution** 

**58.** Correct the statement if required by changing of underlined words only.

Oosphere is present is antipodals.



Syngamy product is endosperm.



**Watch Video Solution** 

**60.** Correct the statement if required by changing of underlined words only.

Entry of the pollen tube through integuments is called mesogamy.



Tranference of pollen gains between two flowers borne an the same plant is called xenogamy.



**Watch Video Solution** 

**62.** Correct the statement if required by changing of underlined words only.

Homogamy, dichogamy and herkogamy are contrivances of self pollination.



The condition where pollen grains are incapable of pollinating the stigma of the same flower is called (dichogamy).



**Watch Video Solution** 

**64.** Correct the statement if required by changing of underlined words only.

The condition where androecium matures first is called protogyny and carpels mature later.



Colour, nectar, scent are adaptations of anemophilous flowers.



**Watch Video Solution** 

**66.** Correct the statement if required by changing of underlined words only.

When pollination is done by snails, it is called ornithophily.



When flowers are inconspicuous, small light pollens produced in large numbers the pollens are (entomophilous).



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**68.** Correct the statement if required by changing of underlined words only.

In angiospermic plants, female gamete is deep seated and present in the integuments.



Primary endosperm, nucleus when divides freely to form multinucleate endosperm, it is their (cellular type).



**Watch Video Solution** 

**70.** Correct the statement if required by changing of underlined words only.

In cellular type endosperm, the first division of endosperm is followed by wall formation and subsequent divisions are free nuclear.



Embryo is a triploid structure.



**Watch Video Solution** 

**72.** Correct the statement if required by changing of underlined words only.

In sexual reproduction, meiosis and syngamy occur which is called apomixis.



Development of more than one embryo from the cells of embryo sac is called proembryo.



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**74.** Correct the statement if required by changing of underlined words only.

Development of fruit without fertilization is called olygamy.



The plants that bear unisexual, bisexual and neutral flowers are called monoecious plants.



**Watch Video Solution** 

**76.** Correct the statement if required by changing of underlined words only.

Seeds are fertilized ovaries.



True fruits develop from fertilized flowers.



**Watch Video Solution** 

**78.** Correct the statement if required by changing of underlined words only.

Dichogamy is seen in bisexual flowers where anthers and carpels mature at the same time.



The ovule is known as microsporangium.



**Watch Video Solution** 

**80.** Correct the statement .

Entry of pollen tube through micropyle is called Mesogamy.



**81.** Give one word answer:

Flowers with all the essential and inessential whorls.



**Watch Video Solution** 

82. Express in one word only

The outermost whorl of the flowers.



**Watch Video Solution** 

83. Express in one word only

Flowers with either stamens or carpels.



The carpillary tisue to which ovules are attached.



**Watch Video Solution** 

85. Express in one word only

Pollen sac is known as.



**Watch Video Solution** 

86. Express in one word only

The innermost nutritive tissue of microsporangium.



The mass of cells from which microsprogenesis starts.



**Watch Video Solution** 

88. Express in one word only

The process of development of microsproes inside the anthers.



Yellowish viscous sticky susbtance exuded from pollen grains.



**Watch Video Solution** 

90. Express in one word only

Inner wall of microspores.



**Watch Video Solution** 

91. Express in one word only

Ovule is otherwise called as.



Ovary is otherwise called as.



Watch Video Solution

**93.** Express in one word only

Stalk of the Ovule.



Ovule with two integuments



95. Express in one word only

Development of megaspore from primary sporogenous cell.



**96.** Express in one word only

Cells on both sides of egg cell.



Cells at the Chalazal end in embryo sacs.



**Watch Video Solution** 

98. Express in one word only

Product of syngamy.



Pollination between pollen and stigma and stigma borne by the flower of the same plant.



**Watch Video Solution** 

100. Express in one word only

Pollination between flowers borne by different plants of same species.



Flowers that never open.



**Watch Video Solution** 

**102.** Express in one word only

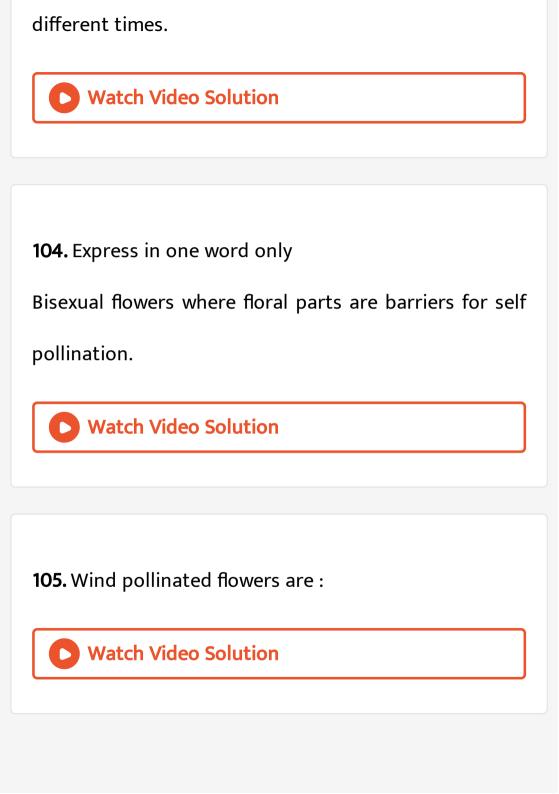
Bisexual flowers with anthers and carpels maturing at the same time.



**Watch Video Solution** 

103. Express in one word only

Bisexual flowers with anthers and carpels maturing at



Insect pollinated flowers.



**Watch Video Solution** 

107. Express in one word only

Bird pollinated flowers.



**Watch Video Solution** 

108. Express in one word only

Bat pollinated flowers.



Water as pollinatign agent.



**Watch Video Solution** 

110. The entry of pollen tube through the micropyle is



**Watch Video Solution** 

111. Express in one word only

Primary endosperm nucleus division followed by wall formation.



Endosperm where first division is cellular.



**Watch Video Solution** 

113. Express in one word only

Seeds with endosperms.



**Watch Video Solution** 

**114.** Express in one word only

Seeds without endosperms.



**115.** What term is used for the process of development of embryo ?



116. Express in one word only

A type of reproduction where there is no nuclear fusion.



Occurance of more than are embryo.



**Watch Video Solution** 

118. Express in one word only

Process of development of new individual without the act of fertilizations.



**Watch Video Solution** 

119. Express in one word only

Process of fruit formation without fertilization.



Fertilized or mature ovary.



Watch Video Solution

**121.** Express in one word only

Fertilized or mature ovule.



Wall of the fruit.



**Watch Video Solution** 

123. Express in one word only

The phase of rest of seeds before germination.



**Watch Video Solution** 

**124.** Express in one word only

Remnants of nucellus left on the seed.



125. Express in one word only

Pollination carried out by bats is called \_\_\_\_\_\_.

Watch Video Solution

126. Express in one word only

Double fertlization is a common characterstics of

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127. Fill in the blanks:
Fusion of male and female gametes resutls in
formation.
Watch Video Solution
128. Fill in the blanks:
Modified shoot for sexual reproduction in angiosperms
is
Watch Video Solution

129. Fill in the blanks:						
Floral axis bearing floral argans is known as						
Watch Video Solution						
<b>130.</b> Fill in the blanks:						
Accessory whorls are and corolla.						
Watch Video Solution						
<b>131.</b> Fill in the blanks:						
Brinjal has calyx.						
Watch Video Solution						

<b>132.</b> Fill in the blanks:
Androecium and gyonecium are whorls of
flower.
Watch Video Solution
<b>133.</b> Fill in the blanks:
Duck weed has the flower.
Watch Video Solution

134. Fill in the blanks: Certain species of Rafflesia have the flowers. **Watch Video Solution** 135. Fill in the blanks: The stalk of the flower is . **Watch Video Solution** 136. Fill in the blanks: Foliar structure present anywhere on the pedicel is



Individiual members of perianth are \_\_\_\_\_.



Watch Video Solution

138. Fill in the blanks:

Hypodermal cells form which microspore development starts is called \_\_\_\_\_ cells.



The anther wall that help in dehiscence of microspores form .



Watch Video Solution

140. Fill in the blanks:

The innermost layer of anther wall that help to provide nourishement is .



**Watch Video Solution** 

**141.** What term is used for formation of microspores?



Dominant component of exine is \_\_\_\_\_.



Watch Video Solution

143. Fill in the blanks:

Exine is interrupted at certain places through which intine protuberances formed are called \_\_\_\_\_ pores.



<b>144.</b> Fill in the blanks:							
Normally takes place at 2 celled stage of							
pollens.							
Watch Video Solution							
145. Fill in the blanks:  At the tip of pollen tubes  Watch Video Solution							
<b>146.</b> Fill in the blanks:							
Ovules are attached to inner wall of ovary by							



The stalk of ovule is \_\_\_\_\_.



Watch Video Solution

148. Fill in the blanks:

Main body of ovule is \_\_\_\_\_.



mother cell.

The last cell of the female sporophytic generation is



Watch Video Solution

150. Fill in the blanks:

Ovules can be, otherwise, called as \_\_\_\_\_.



**Watch Video Solution** 

151. Fill in the blank

The mature female gametophyte of angiosperms is

known as
Watch Video Solution
<b>152.</b> Fill in the blanks:
Polar nuclei fuse to form nucleus.
Watch Video Solution
<b>153.</b> Fusion of one male gamete with definitive nucleus.
Watch Video Solution

**154.** In some plants anthers and stigma grow and mature at same time. This phenomenon is called:



**Watch Video Solution** 

155. Fill in the blanks:

Self pollinating closed bisexual flowers are called \_\_\_\_\_.



**Watch Video Solution** 

156. Fill in the blanks:

When stamens and carpels of the same flowers mature at different times, it is called .



**157.** Fill in the blanks:

Insects, animals may be grouped as \_\_\_\_\_ agents for pollination.



**158.** Fill in the blanks:

Conspicious \_\_\_\_\_ nectar and scent attract

insects to effect pollination.



<b>159.</b> Fill in the blanks:							
When bats function as pollinating agent, it is called							
·							
Watch Video Solution							
<b>160.</b> Fill in the blanks:							
Normally plants are adapted to hydrophily.							
Watch Video Solution							
<b>161.</b> Fill in the blanks:							
Generations of self pollinations causes							
depressions.							



If incompatibility is due to genotype of \_\_\_\_\_, it is called gametophytic incompatibility.



**163.** The process in which the male gamete fertilises with egg.



<b>164.</b> Fill in the blanks:
Ensodperm results from fusion.
Watch Video Solution
<b>165.</b> Fill in the blanks:
In seeds endosperms persists.
Watch Video Solution
<b>166.</b> Fill in the blanks:
In ordchidaceae, endosperm is totally
Watch Video Solution

<b>167.</b> Fill in the blanks:
In Cereal grains, protein is made from
endosperm.
Watch Video Solution
<b>168.</b> Fill in the blanks:
In sexual reproduction, meiosis and are two
main characteristics.
Watch Video Solution

In recurrent \_\_\_\_ the diploid egg develops parthenogenitcally into embryo.



Watch Video Solution

170. Fill in the blanks:

Recurrent agamospermy may be called.



**Watch Video Solution** 

171. Fill in the blanks:

When embryo is formed from haploid egg cell, it is

nonrecurrent or haploid apogamy.							
Watch Video Solution							
<b>172.</b> Fill in the blanks:							
Unfertilized egg of the flower when develop into frutis,							
it is called							
Watch Video Solution							
<b>173.</b> Fill in the blanks:							
Seedless fruits Develop by							
Watch Video Solution							

When the female gametes develop into a new individual, it is called \_\_\_\_\_.



Watch Video Solution

175. Fill in the blanks:

Formation of more than one embryo inside ovule is

----·



176. Fill in the blanks: Seeds have emrbyo, seed coat and for food storage. Watch Video Solution 177. Fill in the blanks: True fruits develop from matured . **Watch Video Solution** 

## 178. Fill in the blanks:

When fruit development takes place at any other part

of flower of thalamus, it is fruit
Watch Video Solution
<b>179.</b> Fill in the blanks:
Study of pollen grains is known as
Watch Video Solution
<b>180.</b> Fill in the blanks:
At the tip of pollen tubes
Watch Video Solution

A. 10weeks
B. 25 weeks
C. 7 months
D. 9 months
Answer:
Watch Video Solution
<b>182.</b> Human embryo is protected by which cavity?
A. Allantois

**181.** What is the gestation period for human?

- B. Amniotic cavity
- C. Pleural cavity
- D. Peritoneal cavity



- **183.** Egg is liberated from Ovavy in
  - A. Secondary Oocyte stage
  - B. primary Oocyte stage
  - C. Oogonial stage
  - D. Mature ovum stage



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

- A. ovary
- B. Uterus
- C. Vagina
- D. Fallopian tube

## **Answer:**



## **185.** Human eggs are

- A. Alecithal
- B. Microlecithal
- C. mesolecithal
- D. Macrolectithal

#### **Answer:**



**Watch Video Solution** 

**186.** Which one is the Primary Sex-organ \_\_\_\_\_

A. Scrotum B. penis C. testis D. Prostrate **Answer: Watch Video Solution 187.** Fertilizins are emitted by A. Immature eggs B. Mature eggs C. Sperms

D. Polar bodies

## **Answer:**



**Watch Video Solution** 

## **188.** A mature sperm has

A. A pair of flagella

B. A nucleus, an acrosome

C.

D. A nucleus, an acrosome, pair of centrioles

#### **Answer:**

**189.** On which day of normal menstrual cycle, ovulation occurs?

- A. Day1
- B. Day5
- C. Day14
- D. Day28

## **Answer:**



190.	Part	of	sperm	involved	in	penetrating	egg
mem	brane	is					

- A. Tail
- B. Acrosome
- C. Allosome
- D. Autosome



**Watch Video Solution** 

191. Villi of human placenta develop from

B. Allantois C. Yolk sac D. Both a and b **Answer: Watch Video Solution** 192. Human female reaches menopause around the age of A. 25 years B. 35 years

A. Chorion

- C. 50 years
- D. 70 years



Watch Video Solution

## **193.** Antrum is cavity of

- A. Ovary
- B. Graafian follicle
- C. Blastula
- D. Gastrula



**194.** What happens during fertilization in human after many sperms reach close to the ovum?

- A. Cells of corona radiate trap all the sperms except one
- B. Only two sperms nearest the ovum penetrate zona pellucida
- C. Secretions of acrosome helps one sperm enter cytoplasm of ovum through zona pellucida

D. All sperms except the one nearest to the ovum lose their tails.

### **Answer:**



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## 195. The haemoglobin od a human foetus

- A. has a higher affinity for oxygen than that of the adult
- B. has a lower affinity for oxygen than that of the adult

- C. its affinity for oxygen is the same as that of an adult.
- D. has only two protein subunits instead of four



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**196.** Which of the following statements is incorrect about menstruation ?

A. The beginning of the cycle of menstruation is calld menarche

- B. During normal menstruction about 40 ml blood is lost
- C. The menstrual fluid can easily clot
- D. At menospause in the female, there is especially abrupt increase in gonadotropic hormones.



**197.** What is the correct sequence of embryo development?

A.

 $Gamete 
ightarrow Zygote 
ightarrow M \,\, {
m or} \,\,\, {\underline a} 
ightarrow Bl * {\underline a} 
ightarrow G * r{\underline a}$ 

В.

 $Gamete 
ightarrow Zygote 
ightarrow Bl* \underline{a} 
ightarrow M \,\, ext{or} \,\,\, \underline{a} 
ightarrow G*r_{\underline{a}}$ 

C.  $Gamete 
ightarrow Neur \underline{a} 
ightarrow G * r \underline{a}$ 

D.  $Gamete 
ightarrow Neur \underline{l}a 
ightarrow M \,\, {
m or} \,\, \underline{a}$ 

## **Answer:**



**Watch Video Solution** 

198. Foetal ejection reflex in human female is iduced by

A. Differentiation of mammary glands

- B. Pressure exerted by amniotic fluid
- C. Release of oxytocin from pituitary
- D. Fully developed foetus and placents



- 199. Implanatation of blastocyst occurs on
  - A. 4th day
  - B. 5th day
  - C. 6th day
  - D. 7th day



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**200.** The cells which secrete male sex hormone testosterone are

- A. Isthumus
- B. Crypt cells
- C.
- D. leydig's cells

## **Answer:**



<b>201.</b> The fluid filled cavity inblastula is called
A. artenteron
B. blastocoel
C. Blastocyst
D. Morula
Answer:  Watch Video Solution

202. In humans, the placenta is

- C. ESH
- D. HL



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**204.** In sexual homology, the glans of penis in the male is equal to \_\_\_\_\_ in the female

- A. Clitoral hood
- B. Clitoris
- C. Clitoral glans
- D. Clitoral crura



**205.** Which of the following protects the vaginal and urethral opnings

- A. Labia majora
- B. Labia minora
- C. Clitoris
- D. Urethra

### **Answer:**



## 206. The release of LH in woman causes

- A. Menstruation
- **B.** Ovulation
- C. increase of endometrial lining
- D. decrease of endometrial lining

#### **Answer:**



<b>207.</b> Which structure connects testis of man to the wall
of scrotal sac ?
A. Spermatic cord
B. Ligament
C. Gubernaculum
D. Thendon ovulator
Answer:
Watch Video Solution

208. The human female is:

A. Spontaneous Ovulator B. Seasonal ovulator C. occasional ovulator D. induced ovulator **Answer: Watch Video Solution** 209. The capsule enclosing testis of human is. A. Tunica albuginia B. Tunica externa C. Tunica vaginalis

D. Tunica vasculosa

#### **Answer:**



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# 210. The skin covering the glans of penis is called

A. Corpus spongiosum

B. Epididymis

C. Corpus cavernosa

D. Prepuce

#### **Answer:**

211. Abdominal	testis	is	found	in	

- A. Elephant
- B. cat
- C. monkey
- D. horse



B. Faciliate ovulation
C. Facilate fertilization
D. Facilate passage of ova to oviduct
Answer:
Watch Video Solution
213. Expanded proximal part of oviduct in human
female is.
A. uterus
B. Vestibule

A. secretion of progestrone

- C. Fimbriated funnel
- D. Fallopian tube



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# 214. Fallopian tube is a part of

- A. ureter
- B. uterus
- C. oviduct
- D. vas deferens



**Watch Video Solution** 

## 215. Repair of endometrium is carried out by

A. FSH

B. Oestrogen

C. LH

D. Prolactin

#### **Answer:**



**216.** In 28 days human ovarian cycle, ovulation takes place typically on:

- A. 5th day of the cycle
- B. 1st day of the cycle
- C. 14th day of the cycle
- D. 28th day of the cycle

## **Answer:**



**Watch Video Solution** 

217. Which is present only in male mammal

- A. Cowper's gland
- B. Bartholin's Gland
- C. Prostate gland
- D. Sebaceous gland



- 218. Location of Leydig cells and their secretion are.
  - A. Pancreas and glycogen
  - B. Liver and cholesteron
  - C. Testes and testosterone

D. ovary and oestrogen

### **Answer:**



**Watch Video Solution** 

# **219.** Corpus luteum is formed by

A. Stroma cells

B. Theca cells

C. Follicle cells

D. germinal cells

### **Answer:**

220.	Which	of th	ne fol	lowing	do	Ova	supply	more	than
sper	m?								

- A. cytoplasm
- B. nutrients
- C. nuclear DNA
- D. mitochondria



**221.** A difference between gametes produced by oogenesis and gametes produced by spermatogensis is that:

A. mature into sex cells

B. contain more homologous chromosomes

C. contain more stored nutrients

D. undrergo cleavage prior to fertilization

## **Answer:**



**Watch Video Solution** 

222. During which process the polar bodies are formed?

C. oogensis D. spermatoleosis **Answer: Watch Video Solution** 223. The process by which spermatids are converted into sperm is called. A. oogenesis B. spermatogenesis

A. gametogensis

B. spermatogenesis

- C. spermatoleosis
- D. gametogensis



**Watch Video Solution** 

224. Name the cells formed by the division of zygote.

- A. blastula
- B. blastomeres
- C. blastocoel
- D. None of these



**Watch Video Solution** 

## 225. When fertilization occurs in the water is

- A. internal fertilization
- B. monospermic fertilization
- C. external fertilization
- D. polysermic fertilization

#### **Answer:**



# **226.** Cleavage is largely influenced by:

- A. cytoplasm
- B. yolk
- C. nucleus
- D. None of these

### **Answer:**



**Watch Video Solution** 

**227.** Which cell organelle is responsible for the formation of acrosome in the sperm?



....

**228.** The embryo in man is protected by \_\_\_\_.



**Watch Video Solution** 

**229.** The dicharge of mature ovum from the Graffin follicle os known as:

- A. oogenesis
- B. Fertilization
- C. Ovulation
- D. Abortion



**Watch Video Solution** 

## 230. Acrosome is reiated to .

- A. Ovum
- B. spermatogenesis
- C. Embryo
- D. Zygote

#### **Answer:**



A. Allantoic type
B. Yolk sac placenta
C. No placenta occurs in mammals
D. Both a and b
Answer:
Watch Video Solution
<b>232.</b> Ovulation takes place in
A. GTH

231. The placenta in mammals is:

- B. FSH
- C. LH
- D. All



**Watch Video Solution** 

# **233.** Middle piece of sperm contains:

- A. Mitochondria and golgi body
- B. Axial filament and golgi body
- C. Mitochondria and axial filament
- D. Centriole and golgi body



**234.** 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:**



235.	The	middle	piece	of	mamma	lian	sperm	contains
------	-----	--------	-------	----	-------	------	-------	----------

- A. Acrosome
- **B.** Nucleus
- C. centriole
- D. mitochondria



**236.** One of the minute cells which separates from the animals egg during its maturation is known as:

- A. Primary spermatogonia
- B. Secondary oogonia
- C. Primary oogonia
- D. Polar body

## **Answer:**



**Watch Video Solution** 

**237.** Development of an egg without fertilization is called:

A. gametogensis B. Metagenesis C. Oogenesis D. Parthenogensis **Answer: Watch Video Solution** 238. In human, the developing embryo remains in: A. Ovary B. Uterus C. Fallopian tube

D. Vagina

## **Answer:**



**Watch Video Solution** 

**239.** How many spermatozoa are formed from one secondary spermatocyte ?

- A. four
- B. eight
- C. one
- D. two



**Watch Video Solution** 

## 240. Repair of endometrium is carried out by

A. LH

B. FSH

C. Prolactine

D. Oestrogen

#### **Answer:**



<b>241.</b> Sertoli cells are found in of mammals .
A. Ovaries
B. Testis
C. Placenta
D. Pituitary
Answer:
Watch Video Solution
<b>242.</b> Delivery of developed foetus is scientically called as
A. Parturition

B.
C. Abortion
D. Ovulation
Answer:
Watch Video Solution
243. Number of eggs released in the life time of a
woman is approximately is
Watch Video Solution
<b>244.</b> Which of the following is immortal?

B. Pituitory cells
C. Brain cells
D. All of these
Answer:  Watch Video Solution
<b>245.</b> Generally, what is the site of fertilisation in human
being? (Vagina, Uterus, Fallopian tube and Ovary)
Watch Video Solution

A. Germ cells

<b>246.</b> What is orchidectomy ?
Watch Video Solution
<b>247.</b> Ovulation is induced by a hormone
Watch Video Solution
<b>248.</b> What is ooplasm?
Watch Video Solution
<b>249.</b> What are 'labour pains'?
Watch Video Solution

250. The region where sperm enter the egg is called-**Watch Video Solution** 251. Fill in the blank. The process of transforming the larva into adult is called\_\_\_\_\_ **Watch Video Solution** 252. Fill in the blank. Cleavage occus in the \_\_\_\_\_



253. Fill in the blank.

The attachment of blastocyst to the wall the mother is called



254. Fill in the blank.

Archenteron is present in \_\_\_\_\_.



**255.** Correct the sentence if required .

Finger like processes in infundibulum are called villi.



**Watch Video Solution** 

256. Fallopian tube is a part of



**Watch Video Solution** 

**257.** Correct the underlined portion.

Menopause is known as the funeral of the unfertilized ovum.



258. Correct the underlined portion.

An antibiotic fertilizin in semen is said to destroy the vaginal bacteria.



**Watch Video Solution** 

**259.** Correct the sentence.

Viral or bacterial infection of placenta is known as measles.





1. Short note on Structure of flower. **Watch Video Solution 2.** Given an account on Pollination and its types. **Watch Video Solution** 3. Write a short note on double fertilization and triple fusion.

**4.** Differentiate between:

Endothecium and Tapetum.



**Watch Video Solution** 

5. Differentiate between:

Exine and intine



**Watch Video Solution** 

6. Differentiate between:

Autogamy and Geitonogamy.



**7.** Differentiate between : Geitonogamy and xenogamy.



**Watch Video Solution** 

8. Differentiate between:

Dichogamy and Herkogamy



**Watch Video Solution** 

9. Differentiate between:

Double fertilization and triple Fusian



**10.** Differentiate between nuclear endosperm and cellular endosperm



11. Differentiate between apospory and apogamy.



**12.** Differentiate between parthenocarpy and parthenogenesis



13. Differentiate between:

Seed and Fruits.



**Watch Video Solution** 

**14.** Give an account of development of female gametophyte in angiosperms.



**15.** Give an account of development of female gametophyte in angiosperms.



**16.** Describe with suitable diagram the process of double fertilizaiton in angiosperms.



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17. Why scrotal sacs are present outside the body?

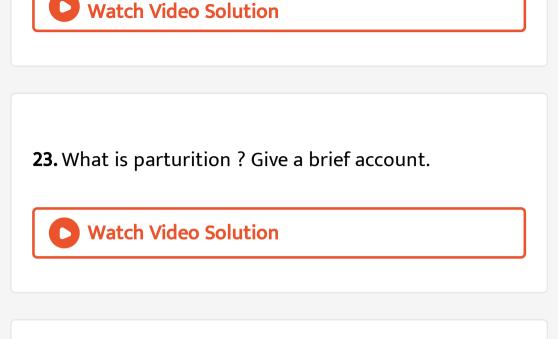


**Watch Video Solution** 

18. What is the function of Leydig's cells?



<b>19.</b> Why is oxytocin called 'birth hormone'?
Watch Video Solution
20. What is trophoectoderm?
Watch Video Solution
<b>21.</b> Define capacitation.
Watch Video Solution
22. Explain, what is puberty?



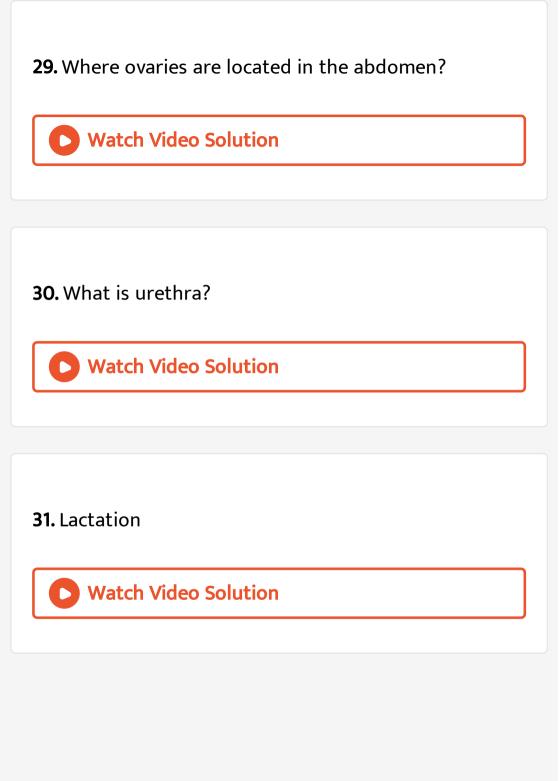
24. Lactation



25. What is 'ectopic pregnancy'?



<b>26.</b> Placenta acts as an endocrine gland. Explain.
Watch Video Solution
<b>27.</b> How many secondary spermatocytes are required to
form 400 spermatoza?
Watch Video Solution
Watch Video Solution
28. What is the shape of the ovaries?
Watch Video Solution



**32.** Mention the optimal temperature for spermatogensis.



33. What is implanatation?



**34.** What is the function of amniotic fluid for the foetus?



35. What is menarche?
Watch Video Solution
<b>36.</b> Why is reproduction essential for the organisms?
Watch Video Solution
<b>37.</b> Where the sperms are temporarily stored?
Watch Video Solution

**38.** Name the developmental stage of the mammels which gland helps in making the semen medium alkaline?



**Watch Video Solution** 

**39.** What are the stages of gametogenesis (or Oogenesis)

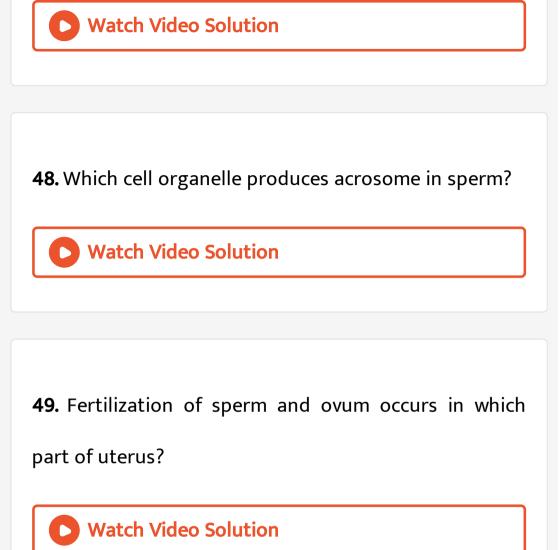


**40.** In which animals oestrous cycle occurs?



41. What is the main function of Epididymis? **Watch Video Solution** 42. What is the function of scrotum? **Watch Video Solution** 43. Name the secondary sex organs in human males? **Watch Video Solution** 

<b>44.</b> What do you mean by endometrium. of the uterus?
Watch Video Solution
<b>45.</b> At what age menopause occurs in human female?
Watch Video Solution
<b>46.</b> What is Menopause.
Watch Video Solution
<b>47.</b> Which membrane holds the ovary with uterus?



**50.** Animals which give birth to young ones are called.

51. What is the other name of ovarian follicle?



**Watch Video Solution** 

**52.** Which enzyme is released by the acrosomal cap of the sperm in human beings?



**Watch Video Solution** 

**53.** Cowpers gland of male correspond to which gland of female?



**54.** Which organ of male correspons to clitors of female?



**55.** What is the place where the spermatozoa enters Oocyte called?



**56.** Who first reported the sperms?



57. Who is the father of modern Embryology?

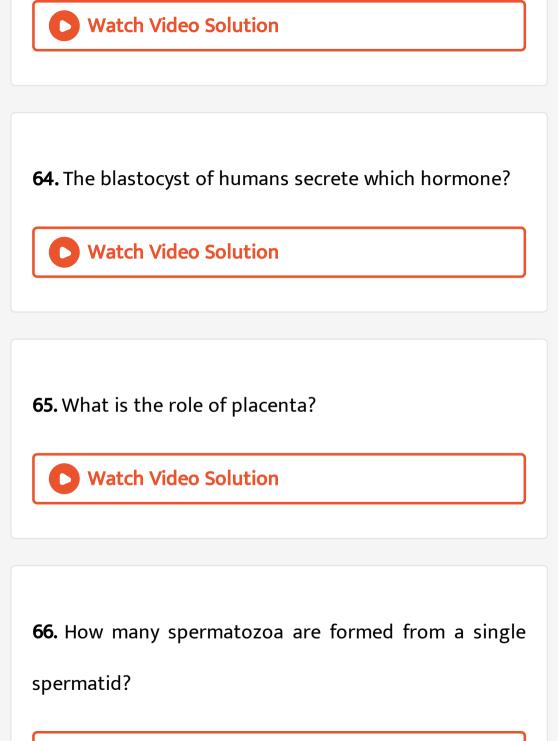
Watch Video Solution

58. Name the cells which form the vitelline membrane

**59.** What is the ploidy of the 1st polar body?



<b>60.</b> What is monospermy?
Watch Video Solution
<b>61.</b> Name the cells which form the vitelline membrane
Watch Video Solution
<b>62.</b> What is meant by perivitelline space?
Watch Video Solution
<b>63.</b> What is vitellogenesis?



**67.** Which membrane is formed after the entrance of a spermatozoan into the Oocyte?



**Watch Video Solution** 

**68.** What is the pattern of division/ cleavage in frog's egg.



**Watch Video Solution** 

69. At which stage of ovum fertilization takes place/



<b>70.</b> Who is the father of modern Embryology?
Watch Video Solution
<b>71.</b> During what stage yolk plug is formed?
Watch Video Solution
<b>72.</b> Fill in the blanks
Human Placenta is
Watch Video Solution

<b>73.</b> Fill in the blanks
Onset of pregnancy inhibits further
Watch Video Solution
<b>74.</b> Fill in the blanks
The hormoneis known as pregency hormone
Watch Video Solution
<b>75.</b> Fill in the blanks
Milk secretion os controlled by the hormone
Watch Video Solution

<b>76.</b> Degenerated corpus luteum is called
Watch Video Solution
<b>77.</b> Fill in the blanks
The cavity of Graafian follicle is called
Watch Video Solution
<b>78.</b> Ovulation is induced by a hormone
Watch Video Solution

**79.** Fill in the blanks The normal duration of menstrual cycle in human female is about Watch Video Solution 80. Fill in the blanks The germ cells which produce ovum are called **Watch Video Solution** 81. Fill in the blanks The germ cells which produce ovum are called

l	Watch Video Solution

**82.** What is the covering present around the testis of man?

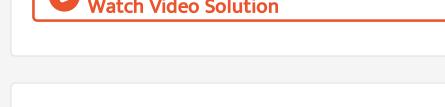


83. Fill in the blanks

Testes are present in mammals inside the \_\_\_\_\_



**84.** Degenerated corpus luteum is called \_\_\_\_.



is responsible for inhibition of ovulation.

86. Fill in the blanks

85. Fill in the blanks

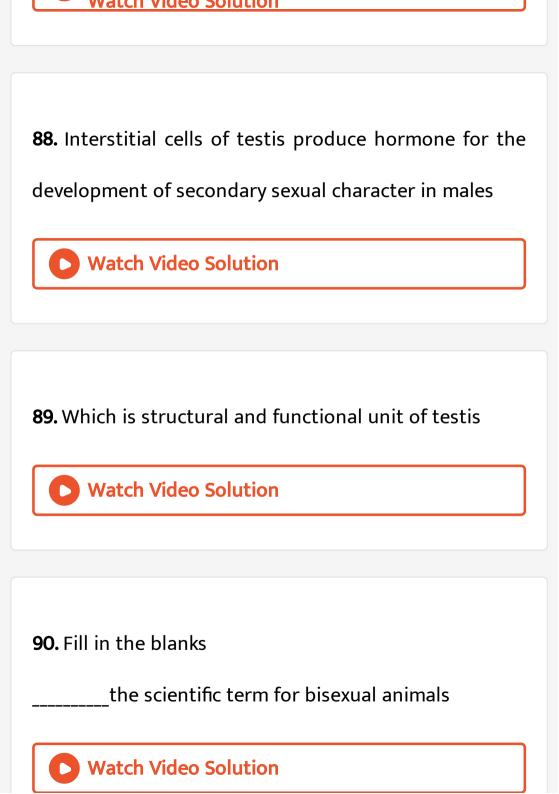
Sertoli sells are found in \_\_\_\_\_of mammal.



**Watch Video Solution** 

87. Mature ovum enters fallopian tube through





**91.** Fill in the blanks

The cells which produce sperms by spermatogenesis are called \_\_\_\_\_.



Watch Video Solution

92. Fill in the blanks

Eggs having hard covering are called \_\_\_\_\_



**93.** Fill in the blanks

The spirally arranged mitochondria of sperm is called

\_\_\_\_\_



**Watch Video Solution** 

94. Fill in the blanks

During fertilization, the fertilizins of egg interacts with

\_\_\_\_ chemicals of sperm.



<b>95.</b> Fill in the blanks
In Oogenesis, the number of polar bodies released are
Watch Video Solution
<b>96.</b> The fusion of male and female pronuclei is called
Watch Video Solution
<b>97.</b> Fill in the blanks
Amnion and chorion are
Watch Video Solution

<b>98.</b> The covering of egg is called membrane.
Watch Video Solution
99. Fill in the blanks  The reaction between fertilizin and antifertilizin is called
Watch Video Solution
<b>100.</b> Fill in the blanks
One spermatogonia can producenumber of

sperms.
Watch Video Solution
<b>101.</b> Fill in the blanks
Maximumpolar bodies may be produced during
oogenesis.
Watch Video Solution
102. Fill in the blanks
Archenteron is found in stage.
Watch Video Solution

## **103.** Fill in the blanks

The divisions which divide a zygote mitotically is called

\_\_\_\_\_



**Watch Video Solution** 

## 104. Fill in the blanks

Hormone \_\_\_\_\_is produced from leydig cells of testis.



**Watch Video Solution** 

105. In a mature sperm the mitochondria are persent in

•



**106.** FILL UP THE BLANKS : The structure which provides vascular connection between foetus & uterus is called



Watch Video Solution

107. Fill in the blanks

Development of young one in human occurs





<b>108.</b> Which enzyme is secreted by salivary gland of man?
Watch Video Solution
109. Fill in the blanks
The vegetal pole of egg contains
Watch Video Solution
Watch Video Solution
440 = 11
110. Fill in the blanks
Development of spermatid into mature sperm is called
Watch Video Solution

**111.** Fill in the blanks

Blastocoel is found in \_\_\_\_\_



Watch Video Solution

112. Fill in the blanks

the bunch of cells produced by cleavinge without a cavity is called



Watch Video Solution

113. Fill in the blanks

The process of complete fusion of male pronucleus

with female pronucleus is called
Watch Video Solution
<b>114.</b> Fill in the blanks
114. FIII III the Dianks
The group of follicle cells around ovum forms
Watch Video Solution
<b>115.</b> Fill in the blanks
The cavity of blastula is called
<u></u>
Watch Video Solution

**116.** Fill in the blanks

The cavity formed during the process of gastrulation is called



Watch Video Solution

117. Fill in the blanks

The region of egg where sperms enter is known as

\_\_\_\_\_



118. Characterize each of the following as beiing as being TRUE or FALSE, If the statement is false, change the underlined word or phrase in such a manner as to make the statement true

Fertilization occurs when the egg and sperm nuclei



fuse and join.

## **Watch Video Solution**

119. Characterize each of the following as beiing as being TRUE or FALSE, If the statement is false, change the underlined word or phrase in such a manner as to make the statement true

The egg of female is much smaller than the sperm.

**120.** Characterize each of the following as being as being TRUE or FALSE, If the statement is false, change the underlined word or phrase in such a manner as to make the statement true

The egg is able to move under its own power by its flagellum in the human.



**121.** Characterize each of the following as being TRUE or FALSE, If the statement is false, change the word or

phrase in such a manner as to make the statement true Spermatogenesis occurs in the prostate gland.



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122. Characterize each of the following as being as being TRUE or FALSE, If the statement is false, change the word or phrase in such a manner as to make the statement true

The head of a human sperm provide the sperm with

energy.



**123.** Characterize each of the following as beiing as being TRUE or FALSE, If the statement is false, change the word or phrase in such a manner as to make the statement true

Oogenesis results in the formation of one egg and three polar bodies from one meiotic division.



**124.** Characterize each of the following as beiing as being TRUE or FALSE, If the statement is false, change the underlined word or phrase in such a manner as to make the statement true

Spermatogenesis results in the formation of one sperm from one meiotic cell division.

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**125.** Why meiosis and gametogenesis are always linked? Explain.



126. What is organogenesis?



**127.** Mention the sites of action of the hormones GnRH and FSH during spermatogenesis in human males. Give one function of each of the hormones.



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128. What is implantation?



**Watch Video Solution** 

**129.** What is the shape of the ovaries and where they are located in the abdomen?



**130.** What are fallopian tubes and what are their functions?



**Watch Video Solution** 

**131.** What is follicular phase? Which is hormone initiaties the development of follicle in ovary.



**132.** Why testes are present outside the abdomen between the thighs?





**133.** Which hormone is secreted from the testes and what is its function?



**134.** In which period of life does the formation of gametes begin in women?



135. What is fertilization and give its significance?



136. Give a note on fertilization membrane?

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137. Mention the glands of female reproductive system

**137.** Mention the glands of female reproductive system in human and list their functions.



138. What is Oestrous cycle?



**139.** Where does oogenesis take place? Which hormone induces it?



**Watch Video Solution** 

140. Define gametogensis and state its type.



**Watch Video Solution** 

**141.** Why testes are present outside the abdomen between the thighs?



142. List the secondary sex characters of humans.



**143.** List the glands of male reproductive system and write down their function.



**144.** Describe the location and function of Corpus



**145.** Name the hormones secreated form ovary. Which hormone is called pregnancy hormone?



**Watch Video Solution** 

**146.** Give a note on artificial insemination.



**Watch Video Solution** 

147. What is Parturition? State the mechanism.



**148.** What is the acrosome of the sperm cell? How is it formed?



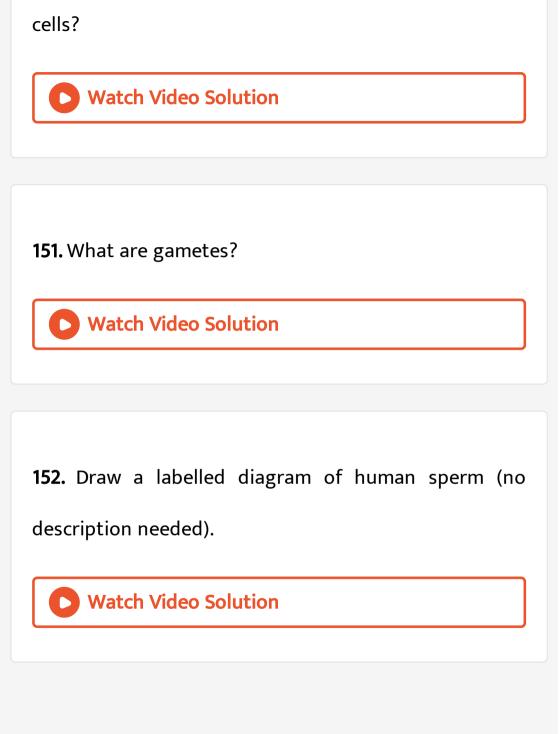
**Watch Video Solution** 

**149.** What is the difference batween spermatids and sperm cells? What is the transformation of spermatids in to sperm cells.



**Watch Video Solution** 

**150.** What is the name os the cells capable of making gametes? What is the ploidy of these gamete forming



**153.** Arrange the following events in right order and defin metamorphosis:

(cleavage, gametogensis, zygote, metamorphosis)



**Watch Video Solution** 

154. What is fertilization and give its significance?



**Watch Video Solution** 

**155.** What is placenta?



**156.** What is spermatogenesis? Name the different development stage between 'Spermatogonia' and 'Spermatozoa'.



**Watch Video Solution** 

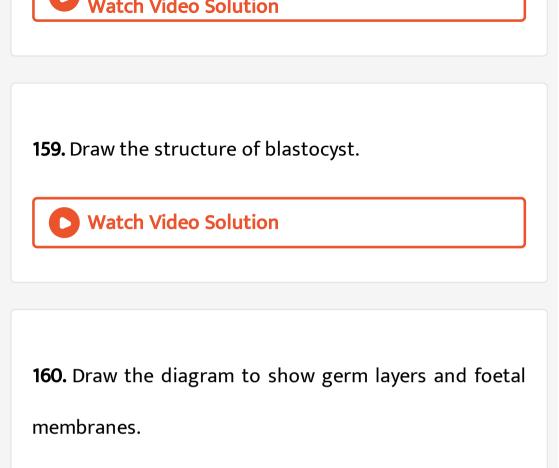
**157.** Arrange the following events in right order and defin metamorphosis:

(cleavage, gametogensis, zygote, metamorphosis)



**Watch Video Solution** 

**158.** Draw the structure of ovum.





**161.** Draw the structure of fully mature sperm.



**162.** Explain significance of the condition in which the testes remain as suspended scrotum outside Abdomen.



**163.** Fertilization perform two function, What are they?



**164.** What are Leydig's cell? Give its function.



**165.** Both gametogenesis and fertilization are essential to maintain chromosome number constant why?



166. List the function of various parts of sperm.



**167.** What is fertilizin-antifertilizin reaction? Give its significance.



<b>168.</b> Enlist the changes during spermatogenesis.
Watch Video Solution
<b>169.</b> What is cortical reaction in the egg?
Watch Video Solution
<b>170.</b> List the functions of placenta.
Watch Video Solution
<b>171.</b> What is the significance of fertilization?



172. Define Cleavage. State its any two characteristic.



173. Distinguish between Amnion and Chorion



174. Differentiate Holoblastic and Meroblastic cleavage.



175. Differentiate Embryo and Larva.



**176.** Difference between:Spermatogenesis and Oogenesis. [2017(A)]



**177.** Difference between:Graafian follicle and Corpus



178. Difference between: Morula and Blastula



**Watch Video Solution** 

179. Differentiate between amnion and chorion.



**Watch Video Solution** 

**180.** Differentiate between asexual reproduction and sexual reproduction.



**181.** Differentiate between : Estrous cycle and menstrual sycle



**Watch Video Solution** 

**182.** Differentiate between : Primary sex organ and secondary sex orgen



**Watch Video Solution** 

**183.** Give an account of the human male reproductive system.



**184.** Give an account of the human male reproductive system.



**Watch Video Solution** 

**185.** Write short notes on : Menstrual cycle



**Watch Video Solution** 

186. Add notes on

Ovulatory phase:



**187.** What is Luteal phase.



**Watch Video Solution** 

188. Write short notes on: Menstrual cycle



**Watch Video Solution** 

189. Describe the types of placenta in human female .

Add list of function of placenta.



**190.** Give detail account of fertilization in human being? **Watch Video Solution 191.** Give the details of spermatogenesis? Add a note on structure of sperm. SPARMATOGENESIS & STRUCTURE OF SPFRM. **Watch Video Solution 192.** Write notes on : Oogenesis

**193.** Describe the types of placenta in human female .

Add list of function of placenta.



194. Give a note on "Cleavage in Human Zygote"

