



# BIOLOGY

## BOOKS - USHA BIOLOGY (ODIA ENGLISH)

### HUMAN REPRODUCTION

#### Exercise

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:**



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

A. FSH

B. Progesterone

C. Testosterone

D. Estrogen

**Answer:**



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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:**



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4. Expanded proximal part of oviduct in human female is.

- A. Uterus
- B. Fimbriated funnel
- C. Vestibule
- D. Fallopian tube

**Answer:**



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

A. Penis

B. Epididymis

C. Scrotal sac

D. Prostate gland

**Answer:**



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6. The capsule enclosing testis of human is.

A. Tunica vasculosa

B. Theca externa

C. Tunica vaginalis

D. Tunica albuginea

**Answer:**



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7. In mammals, failure of testis to descend into the scrotum is known as \_\_\_\_\_

A. Cryptorchidism

B. Castration

C. Impotency

D. Paedogenesis

**Answer:**



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

A. Liver

B. Kidney

C. Testis

D. Ovary

**Answer:**



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9. Which one of the following is concerned with a sexual reproduction ?

A. Zygote

B. Spore

C. Gamete

D. Gonad

**Answer:**



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10. Fusion of dissimilar gametes is

A. Allogamy

B. Anisogamy

C. Autogamy

D. Polygamy

**Answer:**



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11. Which one of the following is a secondary sexual character\_\_\_\_\_

A. Ovary

B. Thyroid

C. Pituitary

D. Breast

**Answer:**



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

A. Testis

B. Scrotum

C. Prostate

D. Penis

**Answer:**



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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

**Answer:**



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

A. Capacitation

B. Insemination

C. Copulation

D. Fertilization

**Answer:**



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**18.** Which of the following hormone promotes accessory sexual characters in female ?

A. Androgen

B. Progesterone

C. Oestrogen

D. Testosterone

**Answer:**



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

A. Oxytocin

B. Relaxin

C. Progesterone

D. LH

**Answer:**



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

A. Oligespermia

B. Azospermia

C. Polyspermy

D. Asthenospermia

**Answer:**



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

A. Ectoderm and Endoder

B. Endoderm

C. Mesoderm

D. Ectoderm, mesoderm and Endoderm

**Answer:**



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

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

**Answer:**



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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

**Answer:**



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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:**



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**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:**



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**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:**



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**32.** The fusion of the pronuclei of sperm and ovum is known as ----



A. Fertilization

B. Amphimixis

C. Hernimixis

D. Transduction

**Answer:**



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

A. Holoblastic& equal

B. Meroblastic

C. Holoblastic& Unequal

D. Diploblastic

**Answer:**



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

A. Nephrostome

B. Ostium

C. Vagina

D. Ureter

**Answer:**



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**35.** Which extra embryonic 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 Zygote.

**Answer:**



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**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. Meiosis - II

C. Division of Secondary oocyte

D. Formation of first Polarbody

**Answer:**



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**39.** Which germ layers develop into liver and pancreas.

A. Ectoderm

B. Mesoderm

C. Endoderm

D. Both a and c

**Answer:**



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**40.** Notochord develops from which embryonic layer?



A. Ectoderm

B. Mesoderm

C. Endoderm

D. All

**Answer:**



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**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 present in .

A. Tail

B. Acrosome

C. Middle piece

D. head

**Answer:**



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

A. Kidney

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:**



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**45.** Which one of the following develops into corpus luteum after ovulation?

A. Oocyte

B. Graaffian Follicle

C. Corpus albicans

D. None of these

**Answer:**



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**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:**



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**47.** The product of first maturation division in testis is known as-----.

A. Spermatid

B. Oocyte

C. Secondary Spermatocyte

D. Sperm

**Answer:**



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**48.** Development of spermatozoa is stimulated by which hormone?

A. FSH

B. LH



C. MSH

D. TSH

**Answer:**



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**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:**



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

A. Haemochorial

B. Epitheliochorial

C. Syndesmochorial

D. None

**Answer:**



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**55.** what forms the acrosome of sperm?



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**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:**



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



A. Caput

B. Corpus

C. Cauda

D. None of these

**Answer:**



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**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:**



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



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**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 ?



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



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**63.** What is the importance of Golgi body in spermatozoa?



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64. \_\_\_\_ is the act of expelling the infant from mother's uterus.



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



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



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**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.



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



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**70.** In which phylum, organisms reproduce by binary fission ?



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71. Which gland of human male is equivalent to the Bartholin's gland of human female ?



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72. What is the covering present around the testis of man ?



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**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 ?



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**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?



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**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 ?



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**79.** Cessation of menstrual cycle in female is called\_\_\_\_\_.



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



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**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 ?



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



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



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**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?



**Watch Video Solution**

**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?



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



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



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**91.** What is the name of the vestigial penis present in female reproductive system ?



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**92.** Which substance prevents clotting of menstrual fluid ?



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**93.** The uterine layer that is sloughed off during menstrual cycle.



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**94.** What is the number of chromosomes in the polar body of human ?



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



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**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 .....



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



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



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**100.** Which cells of Testis secrete testosterone ?



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**101.** What are the nurse cells for spermatozoa.



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**102.** Which enzyme is released from the acrosome of sperm head ?



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



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**104.** Zygote divides to form .....which is implanted in uterus.



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



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**106. FILL UP THE BLANKS :** The cytoplasmic organelle \_\_ is associated with cortical granule formation in sperm cell.



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**107.** Centrioles are located in ..... part of the sperm,



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



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**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.



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



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**112. FILL UP THE BLANKS :** The entry of sperm into the vagina is called \_\_\_\_.



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**113.** Which is structural and functional unit of testis



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**114.** FILL UP THE BLANKS : \_\_\_\_hormone regulates the changes of uterine endometriom during pregnancy.



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**115. FILL UP THE BLANKS :** \_\_\_ hormone regulates puberty in male.



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**116. FILL UP THE BLANKS :** The beginning of production of sperm in boys is called \_\_\_.



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**117. FILL UP THE BLANKS :** In female, fertilization takes place in \_\_\_ of fallopian tube.



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**118. FILL UP THE BLANKS :** Germ hill is found in \_\_\_ of ovary.



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**119. FILL UP THE BLANKS :** A cavity in gastrula is called \_\_\_.



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**120. FILL UP THE BLANKS :** The male and female pronuclei are called \_\_\_.



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**121. FILL UP THE BLANKS :** \_\_\_\_ hormone stimulates mammary gland for milk secretion.



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**122. FILL UP THE BLANKS :** \_\_\_ hormone stimulates corpus luteum of ovary to produce progesterone.



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**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 \_\_\_\_.



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**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.**



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**127.** What is the other name of trophoblast cells lying over the embryonic disc?



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



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



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



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**131. FILL UP THE BLANKS :** 1st Polar body is formed at \_\_\_\_ stage of oogenesis.



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**132. FILL UP THE BLANKS :** In the male reproductive system, sperms are concentrated in the \_\_\_\_.



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**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 \_\_\_\_.



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**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 \_\_\_\_.



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



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**138. FILL UP THE BLANKS :** Implantation is the attachment of \_\_\_\_ to the wall of the uterus of the mother.



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



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**140.** FILL UP THE BLANKS : \_\_\_ hormone stimulates lactation after parturition.



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

tubules undergo \_\_\_ divisions to form spermatogonia.



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**142. FILL UP THE BLANKS :** \_\_\_ type of egg is found in human female.



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**143. FILL UP THE BLANKS :** The process of acquiring the capacity to fertilize the egg by

the sperm is called \_\_\_\_.



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**144. FILL UP THE BLANKS :** The middle piece of human sperm is surrounded by a peripheral layer of cytoplasm called \_\_\_\_.



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



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**146. FILL UP THE BLANKS :** The process by which the unfertilized egg develops into a complete embryo is called \_\_\_\_.



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**147. FILL UP THE BLANKS :** The outermost layer of uterine wall is called \_\_\_\_.



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**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.



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**150.** Difference between: External fertilisation and Internal fertilisation.



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**151.** Difference between: Asexual Reproduction and Sexual Reproduction.



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



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**153.** Difference between:Vasa Efferentia and Vasa Deferentia.



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**154.** Difference between:Graafian follicle and Corpus luteum.



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**155.** Difference between: Multiple Fission and Sporulation.



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**156.** Distinguish between fertilizin and antifertilizin.



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







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**158.** Differentiate between amnion and chorion.



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**159.** Difference between: Corpus luteum and Corpus albicans.



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**160.** Difference between: Gametogenesis and Embryogenesis.



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**161.** Difference between: Fertilisation and Parthenogenesis.



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**162.** Differentiate between : Estrous cycle and menstrual cycle



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**163.** Difference between: Binary Fission and Budding.



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**164.** Difference between: Leydig cells and Sertoli cells.



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**165.** Difference between:Sperm and Ovum



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



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**167.** Differentiate between cleavage and mitosis.





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**168.** Differentiate between : Spermatogenesis and Spermiogenesis



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**169.** Difference between: Menarche and Menopause



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**170.** Difference between:Spermatocytes and Oocytes.



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**171.** Difference between:Morula and Blastula



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**172.** Difference between:Primary sex-organs and secondary sex-organs.



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**173.** Difference between: Endometrium and Myometrium.



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