

Class: 12
Subject: Biology
Topic: Human Reproduction
No. of Questions: 20
Duration: 60 Min
Maximum Marks: 60

1. The eggs of reptiles and birds contain a large amount of yolk. We refer to such eggs as

- A. Microlecithal
- B. Macrolecithal
- C. Mesolecithal
- D. Oligolecithal

Ans. B

2. The function of hyaluronidase is

- A. To form cone of reception in egg
- B. To puncture the vitelline membrane of egg
- C. It is not produced in human sperm
- D. None of the above

Ans. B

Solution: In most mammalian fertilization, hyaluronidase is released by the acrosome of the sperm cell after it has reached the oocyte, by digesting hyaluronan in the corona radiata, thus enabling conception.

3. Test tube baby is the one

- A. Who is reared on artificial medium outside the womb
- B. Early growth inside the female body but later growth on artificial medium
- C. Fertilization and early growth on artificial medium but later implantation in female uterus
- D. Growth of human baby inside the fallopian tube instead of uterus

Ans. C

4. Which one develops from Endoderm?

- A. Nervous system, urinary bladder and eye
- B. Liver, connective tissue and heart
- C. Thymus, spinal cord and brain
- D. Liver, pancreas and thymus/thyroid

Ans. D

5. Human Eggs are

- A. Alecithal
- B. Microlecithal
- C. Mesolecithal
- D. Macrolecithal

Ans. A

Solution:

Having almost no yolk in the eggs.

6. Oocyte is liberated from ovary under the influence of LH completing

- A. Meiosis and before liberating polar bodies
- B. Meiosis I and before liberating polar bodies
- C. Meiosis I before completion of meiosis II
- D. Meiosis I after release of polar body

Ans. C

7. AIDS was first reported in

- A. Russia
- B. France
- C. U.S.A
- D. Germany

Ans. C

8. In mammals, the testes occur in scrotal sacs outside the viscera because of the

- A. Presence of urinary bladder
- B. Presence of rectum
- C. Long vas deferens
- D. Requirement of low temperature for spermatogenesis

Ans. D

9. Progesterone present in contraceptive meant for

- A. Checking ovulation
- B. Preventing fertilisation
- C. Preventing implantation of zygote
- D. Preventing cleavage

Ans. A

Solution:

Progesterone present in pills prevents ovulation.

10. Match the columns and find correct combination

I		II	
a	FSH	p	Preparation of endometrium for implantation
b	LH	q	Female secondary sexual characters
c	Progesterone	r	Contraction of uterine muscles
d	Estrogen	s	Development of corpus luteum
		t	Maturation of Graffian follicle

- A. a-t, b-s. c-p. d-q
- B. a-r; b-t, c-s. d-q
- C. a-t, b-p, c-s. d-q
- D. a-q, b-s. c-p. d-r

Ans. A

11. Which of the following does not occur between 15th-28th day of menstrual cycle?

- A. Premenstrual phase
- B. Luteal phase
- C. Secretory phase
- D. Proliferative phase

Ans. D

Solution:

That occurs during the first 7-8 days of the cycle.

12. Follicular phase of menstrual cycle is the other name of

- A. Proliferative phase
- B. Secretory phase
- C. Luteal phase
- D. Menstruation

Ans. A

Solution:

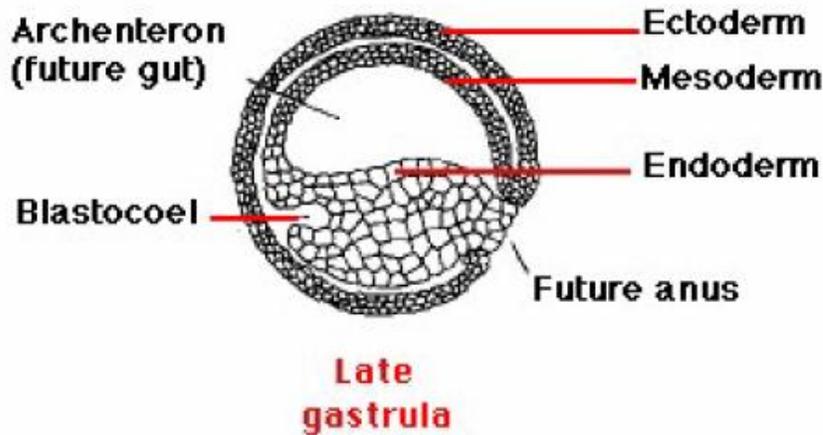
The follicular phase (or proliferative phase) is the phase of the estrous cycle (or, in humans and great apes, the menstrual cycle) during which follicles in the ovary mature. It ends with ovulation.

13. Late gastrula of Frog shows

- A. Ectoderm, endoderm, blastopore and blastocoel
- B. Ectoderm, endoderm, blastocoel and archenteron
- C. Ectoderm, mesoderm, blastopore and archenteron
- D. Ectoderm, endoderm, mesoderm, blastopore and archenteron

Ans. D

Solution:



14. Function of protein bindin in acrosomal process is to
- Prevent polyspermy
 - Digest vitelline layer
 - Ensure fertilisation of egg by a sperm of same species
 - Severe the sperm tail

Ans. C

Solution:

The bindin is a protein present in the sperm heads.

15. Holoblastic cleavage occurs in
- Alecithal egg
 - Telolecithal egg
 - Mesolecithal egg
 - Microlecithal egg

Ans. A

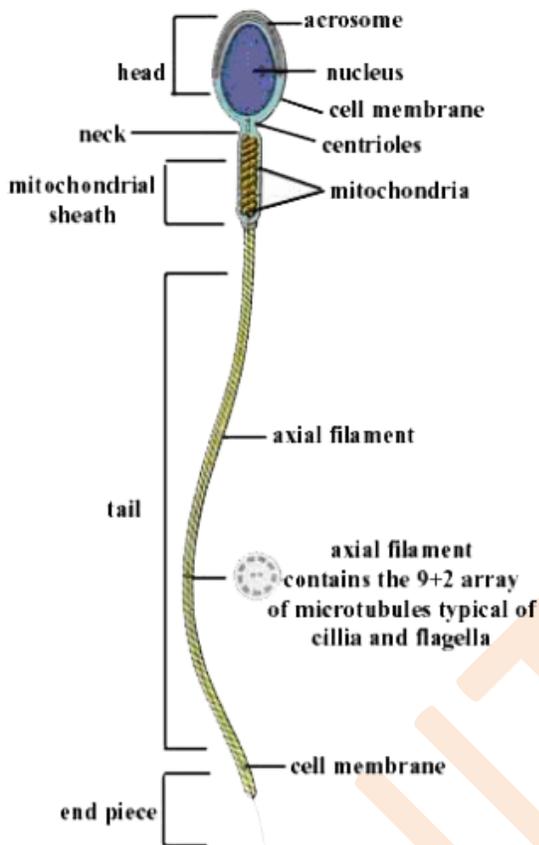
Solution:

Holoblastic cleavage is the complete division of an isolecithal or microlecithal egg into blastomeres

16. A mature sperm has
- A pair of flagella
 - A nucleus, an acrosome and a centriole
 - A nucleus, an acrosome, a pair, of centrioles
 - A nucleus, an acrosome, a pair of centrioles and a tail

Ans. D

Solution



17. One of these is not of ectodermal in origin

- A. Dermis of skin
- B. Lens of eyes
- C. Epidermis of skin
- D. Entire nervous system

Ans. A

Solution:

Dermis of skin is derived both from ectoderm and mesoderm

18. In frog, the division of egg is

- A. Diploblastic
- B. Holoblastic
- C. Meroblastic
- D. Triploblastic

Ans. B

Solution:

Holoblastic cleavage is the complete division of an isolecithal or microlecithal egg into blastomeres.

19. In production of test tube babies
- A. Fertilization is external and foetus formation internal
 - B. Fertilization is internal and foetus formation external
 - C. Both fertilization and foetus formation internal
 - D. Both fertilization and foetus formation external

Ans. A

20. Approximate number of AIDS patients worldwide is
- A. 2 million
 - B. 20 million
 - C. 200 million
 - D. 300 million

Ans. B

askITians