

Scientific Aptitude

Reproduction in Animals

Check Your Concepts

Q.1. Match the following:

Directions: Given below are two columns - column I and column II. Match the two columns and write the correct answer in the given blank grid.

1. Match the following:

Column – I		Column – II	
(A)	A muscular tube where sperm cells are deposited.	(i)	Uterus
(B)	The female sex cell.	(ii)	Menstruation
(C)	The discharge of broken lining of uterus.	(iii)	Cervix
(D)	The narrow opening of uterus.	(iv)	Ovum
(E)	The release of a mature egg from the ovary.	(v)	Fallopian tube/oviduct
(F)	Site of fertilization.	(vi)	Vagina
(G)	A muscular structure where baby grows.	(vii)	Epididymis
(H)	Region that stores sperm.	(viii)	Ovulation

Q.2. True / False:

Directions: Read the following statements and mark your response as true or false. Rewrite the correct statement(s) in the box provided below, in case of false statements).

1. An ovum of a women is about the size of a full stop at the end of this sentence. []
2. Sperms have tails so that they can swim towards the egg. []
3. Every girl is born with about a hundred unripe egg in each ovary. []
4. Of the million of sperm that enter the female, only one sperm is needed to bring about fertilization. []
5. Fertilization is the process of fusion of egg nucleus and sperm nucleus. []
6. Fertilization of ova in human female occurs in vagina. []

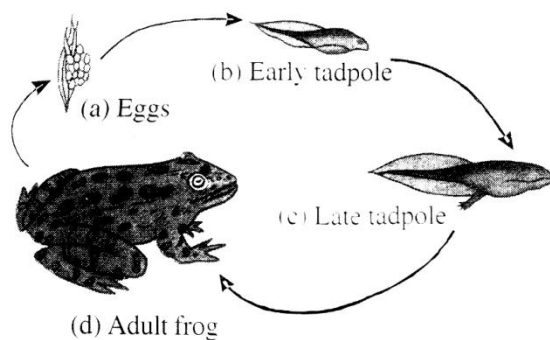
Q.3. Multiple choice questions:

Directions: Read the following questions and choose the answers that best answer the questions.

1. Which of the following changes does not occur during puberty in a girl?
(a) Rapid increase in height (b) Growth of hair in armpits
(c) Hips become wider and rounder (d) Production of testosterone hormone
2. Which one of the following is not part of the male reproductive system?
(a) Sperm (b) Penis (c) Ovaries (d) Testes
3. The process of forming two new cells from a cell is called
(a) Cell division (b) Pollination (c) Splitting (d) Fertilization
4. A sperm does not have
(a) Cell membrane (b) Cytoplasm (c) Cell wall (d) Nucleus
5. Which of the following statements is correct for fertilization?
(a) It occurs in all plants.
(b) It does not occur in animals.
(c) It allows the characteristics of both male and female parents to be passed onto their young.
(d) It occurs using an egg cell from the male parent and a sperm cell from the female parent.
6. In humans, the stage of growth in a young person when the reproductive organs become functional is called
(a) Adulthood (b) Fertilization (c) Ovulation (d) Puberty
9. Which of these is part of the human male reproductive system?
(a) Cervix (b) Testis (c) Uterus (d) Vagina
8. The male sex cell in humans is called the
(a) Hormone (b) Ovum (c) Penis (d) Sperm
9. The chemicals which are responsible for the changes in a young person during puberty are called
(a) Eggs (b) Enzymes (c) Hormones (d) Sperm

- 10.** Sex gland (prostate and seminal vesicle) provide
 (a) The sex hormones for males and females (b) A storage space for sperm and eggs
 (c) The nutrients for eggs only (d) The nutrients for sperm only
- 11.** Genetic information from the father is transferred via the
 (a) Ovum (b) Prostate (c) Seminal vesicle (d) Sperm
- 12.** The word “foetus” means a
 (a) Fertilized egg (b) Method of birth control
 (c) Developing unborn baby in womb (d) Person with sexually transmitted disease
- 13.** A gamete is
 (a) Haploid (b) Diploid (c) Triploid (d) Tetraploid
- 14.** The first menstrual period in a girl occurs at an age of
 (a) 1-2 years (b) 5-6 years (c) 12-14 years (d) 17-18 years
- 15.** When released from ovary, human egg contains
 (a) One X chromosome (b) One Y chromosome
 (c) XX chromosome (d) XY chromosome
- 16.** The stages in the development of an embryo is
 (a) Egg - Embryo - Zygote – Foetus (b) Egg - Zygote - Embryo – Foetus
 (c) Zygote - Egg - Foetus - Embryo (d) Zygote - Foetus - Egg – Embryo
- 17.** A gland that releases hormones directly into the bloodstream is known as ___i___ gland. An example of such gland is ___ii___.
- The information in which row completes the given statements?
- (a) i-Exocrine; ii-sweat gland (b) i-Exocrine; ii-pituitary
 (c) i-Endocrine; ii-sweat gland (d) i-Endocrine; ii-pituitary

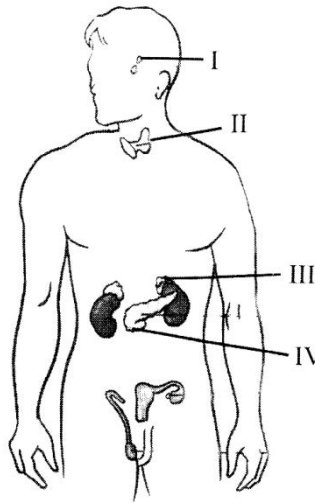
18. Which option correctly describes the sex chromosomes in humans?
(a) Female-XY; Male-XX (b) Female-YY; Male-XY
(c) Female-XX; Male-XY (d) Female-XY; Male-YY
19. ____i____ reproduction involves the fusion of male and female gamete. The off springs produced are ____ii____ to their parents.
The information in which row completes the given statements?
(a) i-Sexual; ii-identical (b) i-Sexual; ii-non-identical
(c) i-Asexual; ii-identical (d) i-Asexual; ii-non-identical
20. *Amoeba* reproduces ____ii____ by ____ii____.
The information in which row completes the given statement?
(a) i-Asexually; ii-budding (b) i-Sexually; ii-binary fission
(c) i-Asexually; ii-binary fission (d) i-Sexually; ii-budding
21. A person is suffering from goiter. The disease is associated with
(a) Pituitary gland (b) Thyroid gland (c) Adrenal (d) Pancreas
22. Which hormone controls the process of metamorphosis in frogs?
(a) Insulin (b) Estrogen (c) Thyroxin (d) Adrenalin
23. The given figure shows life cycle of frog.



The process of development of tadpole into adult frog is known as

- (a) Metamorphosis (b) Fertilization (c) Implantation (d) Budding

24. The given illustration represents the positions of various endocrine glands in the human body.



In the given illustration, adrenal gland is labeled as

- (a) I (b) II (c) III (d) IV

Q.4. Subjective questions:

1. Why is the use of iodized salt advised?

Ans.

2. (i) What are the two main types of reproduction in living organisms ?
 (i) Classify the following organisms under two types of reproduction.

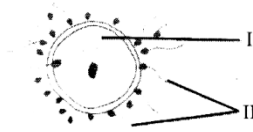
Amoeba, Frog, Earthworm, Hydra, Yeast

Ans.

3. List three points of differences between zygote and foetus.

Ans.

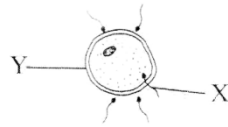
4. The given figure shows an important step in sexual reproduction.



- (i) What is label I and II in the figure?
(ii) Which process is being represented in above figure? Explain

Ans.
.....
.....

5. In the diagram, X is a sperm and Y is an egg.



Describe how fertilization takes place using the terms X and Y.

Ans.
.....
.....

6. Explain why there is an equal chance of a baby being either a boy or a girl.

Ans.
.....
.....

7. Complete the chart using given words/ terms.

Womb, Egg, fertilized egg, Testis, Ovary, Sperm, Sexual reproduction

