

# VIDYA SHREE ACADEMY SR. SEC. SCHOOL

An English Medium Co.Ed. School | Science & Commerce



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Subject – Science Class- 8 Topic – chapter-9 Reproduction in animals

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Ti	EXERCISES  Use Cordova Smart smart board in class  Tick(/) the correct options:  The function of testes is to produce  (b) egg  (c) semen	Class Software on to	he es.			
	The function (h) agg					
1.	(a) ovull (d) sp	erms	0			
2.	(a) uterus (b) vagina (c) ovary					
	(a) uterus (b) vagina (c) ovary  The number of nuclei present in a zygote is  (b) two (c) four.	allopian tube	_			
2	The number of flucies present and 2) good is	Francibe	0			
	(1000					
	(a) one (b) Paramerium (d) r	one	0			
4.	4. Binary fission takes pro-		0			
	(a) Hydra (b) r drumeciam (c) yeast					
	The process that ensures continuity of life on the earth is	Planaria	0			
5.	(h) exerction					
	(a) respiration (b) excretion (c) reproduction (d)	dianeti				
6.	The fluid produced by seminal vesicles mixes with the sperms to produce	digestion	0			
	(b) testesterens (c)					
	(a) semen (b) testosterone (c) ovum	placenta				
	A tadpole develops into an adult frog by the process of	Pidceilla	0			
	(Notification (h) metamorphosis (1)					
	(a) fertilisation (b) metamorphosis (c) budding (d)	) binary fission				
8.	The male gametes are called					
	0 426					
	( ) ( ) ( ) ( )	) embryo	0			
	ill in the Dianks:		0			
1.	1. The production of new animals from a single parent without the involvement of gametes is called					
2. An adult female produces female gamete called						
3. The fertilisation that occurs outside the female body is called						
4. The act of giving birth to a baby is called						
5.	5. The embryo gets embedded in the walls of uterus. This is called					
6. The process of production of gametes is called						
To the store or of the						
7. Testosterone is the sex hormone.						
			4 3 UNE			

#### C. Very Short Answer Questions:

- Name two animals each, that reproduce by (a) asexual mode (b) sexual mode.
- 2. Name one female sex hormone.
- 3. What do you call the fertilisation inside the body of a female?
- 4. Which type of reproduction takes place in Amoeba?
- 5. Expand IVF.
- 6. What is meant by menstruation?

### D. Short Answer Type-I Questions:

- 1. What are viviparous animals? Name any two viviparous animals.
- 2. Give two differences between asexual and sexual reproduction.
- 3. What do you understand by the term 'ejaculation'?
- 4. How does scrotum help in the development of sperms?

### E. Short Answer Type-II Questions:

- 1. What is the role of fallopian tubes and testes?
- 2. How does an Amoeba reproduce?
- 3. Explain the term 'gestation period'. What does the placenta provide to the growing foetus?
- 4. Nitika's aunt is unable to give birth to a baby. She decides to adopt a girl child named Puja from an orphanage.
  - (a) Give one reason due to which Nitika's aunt is unable to have a baby.
  - (b) What can we learn from Nitika's aunt?

# F. Long Answer Questions:

- 1. With the help of diagrams, explain reproduction in Hydra.
- 2. Discuss the development of embryo and foetus in human beings.

# G. HOTS (Higher Order Thinking Skills) Questions:

- 1. How does a woman with blocked fallopian tube give birth to a baby?
- 2. How is the larva of a frog different from an adult frog?

### **EXERCISES**

A. Tick (✓) the correct options:

- 1. (d)
- 2. (d)
- 3. (b)
- 4. (b)
- 5. (c)
- 6. (a)

7. (b)

8. (c)

B. Fill in the blanks:

- 1. asexual reproduction 2.
  - ovum
- 3. external fertilisation

- 4. parturition
- 5. implantation
- 6. gametogenesis

7. male

C. Very Short Answer Questions:

- 1. (a) Amoeba and Paramecium
- (b) Frog and human being

2. Oestrogen

- 3. Internal fertilisation
- 4. Asexual reproduction
- 5. in vitro fertilisation
- 6. If the ovum is not fertilised by the sperm, it is expelled from the vagina along with some muscles and blood. This is called menstruation.

D. Short Answer Type-I Questions:

 The animals that give birth to young ones are called viviparous animals, e.g., cats and cows.

S. No.	Asexual reproduction	Sexual reproduction
(i)	It produces new animals without the involvement of gametes.	It produces new animals from the existing two parents by the fusion of their gametes.
(ii)	No zygote is formed.	Formation of zygote takes place.

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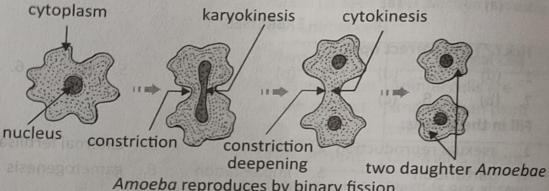
- 3. The process of releasing sperms into vagina is called ejaculation.
  - 4. Scrotum acts as a thermoregulator and keeps the temperature of testes about 1-3°C lower than the body temperature that is necessary for the production of sperms.

# E. Short Answer Type-II Questions:

1. The fertilisation of egg (or ovum) by the sperm takes place in the fallopian tubes.

Testes produce male gametes called sperms and male sex hormone called testosterone.

2. Amoeba reproduce by binary fission. In binary fission, the parent organism splits to form two new organisms of the same kind. In binary fission of a fully grown Amoeba, the nucleus increases in size and divides into two parts (karyokinesis). After that, the cytoplasm divides into two parts (cytokinesis) around each nucleus and forms two daughter cells. In this way, a single parent Amoeba divides to form daughter Amoebae.

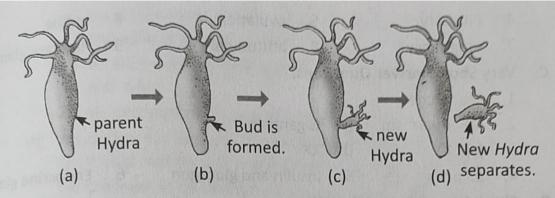


Amoeba reproduces by binary fission.

- 3. The period of complete development of a foetus from fertilisation till the birth of a baby is called gestation period. Placenta provides nutrients and oxygen to foetus and also removes wastes.
- 4. (a) Blockage of fallopian tube
  - (b) We can adopt the orphans and give them love, care and good education. There are many children in the world who need love and care. By giving these children whatever they need, we can set an excellent example and serve the society.

## F. Long Answer Questions:

In Hydra, first a small outgrowth called a 'bud' grows on the side of its body. This bud then grows gradually to form a small Hydra by developing a mouth and tentacles. The tiny daughter Hydra detaches itself from the body of parent Hydra. This tiny Hydra grows to its full size by eating



2. In humans, the zygote divides rapidly and repeatedly to form a ball of hundreds of cells. The cells form groups and develop into different tissues and organs of the body. This developing structure is called embryo. The embryo continues to develop in the uterus. It gradually develops body parts such as hands, legs, head, eyes, ears, etc. The stage of the embryo in which all the body parts can be identified is called foetus. The foetus is attached to the uterus by a special structure called placenta. The placenta provides oxygen and nutrients to the foetus and also removes wastes.

## G. HOTS (Higher Order Thinking Skills) Questions:

- 1. A woman with blocked fallopian tube can give birth to a baby by fertilisation of eggs outside the body. The method is called in vitro fertilisation. In such cases, the doctor collects freshly released eggs and sperms and keeps them together for a few hours for in vitro fertilisation to take place. The zygote formed as a result of fertilisation of egg is placed in the mother's uterus for further development.
- 2. The larva of frog is not similar to the adult frog because larval stage of frog that is the tadpole is restricted to water as the egg gets fertilised in water and hatches into a tadpole. The tadpole, thus, possesses those characteristics that enable it to survive in water. Also, the tadpole has a tail that is absent in case of frog.