

Reproduction in Animals

Application Based Questions

Q.1. Multiple choice questions:

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

1. What common feature do the eggs of different organisms share?
(a) They have hard shells.
(b) They have an embryo inside each of them.
(c) They can develop into young organisms when fertilized.
(d) They all are fertilized internally.
2. Which of the following traits is not passed on from parents to their young one?
(a) Length of hair (b) Color of eyes (c) Dimples (d) Height
3. The stage of development between fertilized egg and newly formed baby is
(a) Zygote (b) Embryo (c) Fetus (d) bud
4. Which of the following food items should not be included in the diet of adolescents?
(a) Dal and roti (b) Rice and pulses
(c) Fruits and vegetables (d) Chips and coke
5. How long does it take for a fertilized human egg to develop into a baby?
(a) Three months (b) Six months (c) Nine months (d) Twelve months
6. Which of these are changes which occur during puberty in a boy?
I. Voice breaks II. Hips become wider
III. Shoulders become wider IV. Menstruations starts
(a) I and II only (b) I and III only (c) II and III only (d) III and IV only

- 7.** Which of the following glands have both endocrine and exocrine function?
(a) Pancreas (b) Adrenal (c) Salivary (d) Pituitary
- 8.** Which of the following statements about sexual reproduction in Hydra is correct?
(a) The new individual is formed by splitting of parent body into two halves.
(b) The fragments formed by the parent's body give rise to new individual.
(c) The spores formed on parent's body give rise to the new individual.
(d) The new individual develops as a bud on the body of parent.
- 9.** Mohan wants to study the life cycle of viviparous animal. Which of the following animals can he choose for his study?
(a) Frog (b) Rabbit (c) Lizard (d) Sparrow
- 10.** Which of the following events occur during menstruation?
(a) Formation of zygote. (b) Sperms enter zygote.
(c) Disintegration of uterus wall. (d) Zygote implants itself in uterus.
- 11.** Which of the following changes is not observed in girls at the time of puberty?
(a) Increase in height (b) Enlargement of larynx
(c) Development of ovaries (d) Change in the shape of body
- 12.** Menopause refers to phase in the life of female when
(a) Menstruation begins. (b) Menstruation stops.
(c) The development of breast takes place. (d) The development of ovaries takes place.
- 13.** Adrenaline is a hormone secreted by adrenal gland. Which of the following statements is correct for adrenaline?
(a) It maintains blood sugar level. (b) It helps the body to adjust stress.
(c) It ensures normal growth of body. (d) It prepares uterus for receiving the embryo.
- 14.** AIDS is not transmitted by
(a) A mother to an infant through her milk
(b) Shaking hands with an infected person
(c) Sharing syringes used for injecting drugs
(d) An infected person to a healthy person during sexual intact

15. Which of the following organisms has the characteristics listed in the box?

<p><i>It is a mammal.</i></p> <p><i>It lays eggs.</i></p> <p><i>The eggs are fertilized internally</i></p>
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- (a) Bat (b) Ostrich (c) Kangaroo (d) Platypus
16. The type of fertilization in which fusion of male and female gamete takes place inside the female body is called ...i..... The example includesii....
The information in which row completes the given statements?
- (a) i-Internal fertilization; ii-chicken (b) i-External fertilization; ii-chicken
(c) i-Internal fertilization; ii-starfish (d) i-External fertilization; ii-starfish
17. The information about the traits that parents will pass on to their young is found in
(a) Cell membrane (b) Chloroplast (c) Cytoplasm (d) Nucleus
18. The animals such asi..... which give birth to young ones is calledii.....
The information in which row completes the given statement?
- (a) i-Lizard; ii-Oviparous (b) i-Dog; ii-Oviparous
(c) i-Lizard; ii-Viviparous (d) i-Dog; ii-Viviparous
19. The given illustration represents a human sperm.

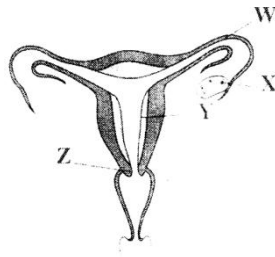


Human sperm

In the given illustration labels I, II and III respectively represents

- (a) Head, middle piece, and tail (b) Head/ tail, and middle piece
(c) Middle piece, head, and tail (d) Middle piece, tail, and head

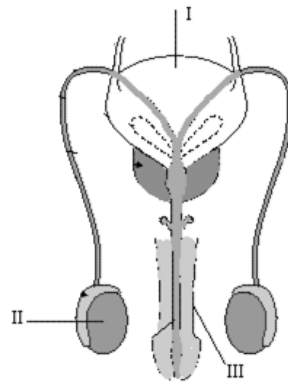
20. The diagram shows the female reproductive system.



The process of fertilization occurs ini..... While implantation occurs inii.....

- (a) i-W; ii-Y (b) i-X, ii-Z (c) i-Y; ii-X (d) i-Z; ii-W

21. The diagram shows the human male reproductive system.



The structures labelled I, II and III respectively refer to

- (a) Testes, Bladder/ Penis (b) Bladder, Testes, Penis
(c) Sex glands. Bladder, Penis (d) Penis, Sex glands. Bladder

Q.2. **Assertion and Reason:**

The question given below consists of a Statement-1 (assertion) and a Statement-2 (reason). Use the following key to choose the appropriate answer.

- (a) If both Statement-1 and Statement-2 are correct and Statement-2 is the correct explanation of Statement-1.
(b) If both Statement-1 and Statement-2 are correct but Statement-2 is not the correct explanation of Statement-1.
(c) If Statement-1 is correct, but Statement-2 is incorrect
(d) If Statement-1 is incorrect, but Statement-2 is correct
(e) If both Statement-1 and Statement-2 are incorrect.

1. **Statement I:** During fertilization only head of spermatozoa enters egg.

Statement II: If several spermatozoa hit the egg at same time, all can enter the egg.

Ans.
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2. **Statement I:** Amoeba shows binary fission during unfavorable conditions.

Statement II: Chances of survival are less during unfavorable conditions.

Ans.
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3. **Statement I:** Urethra in human male acts as urinogenital canal.

Statement II: Urethra carries only urine while sperms are carried by vasa deferentia only.

Ans.
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Q.3. Subjective questions:

1. Can you explain, why sperms are described as many, minute and mobile.

Ans.
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2. Usually only one embryo is formed at a time although there are two ovaries in women. Explain.

Ans.
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3. The human egg cell is about 50 times wider than a sperm cell? Can you guess the reason behind it?

Ans.
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4. Why aquatic animals produce large number of eggs?

Ans.
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5. Why sperms are motile whereas ovum non-motile in human reproductive system?

Ans.
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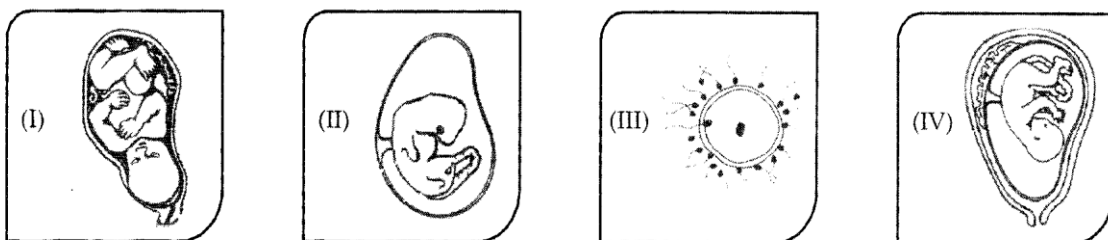
6. How do living beings ensure that their own kind continues to exist?

Ans.
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7. Briefly explain the journey of sperm through female reproductive system and journey of egg cell.

Ans.
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8. The diagram show the stages of growth of a baby in its mother's womb.



(a) Arrange them in the correct order.

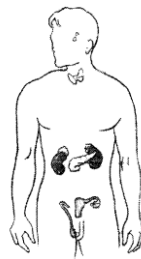
(b) The period of time from fertilization to the birth of a human baby is known as ____ . Explain.

Ans.
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9. (a) Complete the given chart.

Glands	Hormone secreted	Functions
Pituitary	(i) _____	Controls development of bone and muscles in body.
(ii) _____	Insulin	(iii) _____
Adrenal gland	(iv) _____	Regulates carbohydrate metabolism.
Ovaries	(v) _____	(vi) _____
(vii) _____	(viii) _____	Controls the development of male secondary sexual character.
(ix) _____	Thyroxine	Controls the development of carbohydrate, fat and protein in body.

- (b) The given illustration represents the position of various endocrine glands in human body. Label each gland with their respective name, in the figure itself.



Ans.

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