

**WORKSHEET**

**Class: 8**

**Topic: REPRODUCTION IN ANIMALS  
REACHING THE AGE OF ADOLESCENCE  
SOUND**

**Subject: SCIENCE**

**MULTIPLE CHOICE QUESTIONS.**

*1. The transformation of the larva into an adult through drastic changes is called-*

- a) Metaphase
- b) Metastasis
- c) Meteorite
- d) Metamorphosis

*2. The animals that produce new young ones are called-*

- (a) viviparous
- (b) oviparous
- (c) both
- (d) none of these

*3. In humans, the development of fertilised egg takes place in the*

- (a) ovary
- (b) oviduct
- (c) testis
- (d) uterus

*4. Sets of reproductive terms are given below. Choose the set that has an incorrect combination.*

- (a) Sperm, testis, sperm duct, penis
- (b) Menstruation, egg, oviduct, uterus
- (c) Sperm, oviduct, egg, uterus
- (d) Ovulation, egg, oviduct, uterus

*Given below are events that lead to pregnancy and development of the embryo.*

*i) Fertilization of egg*

*ii) Maturation of egg*

*iii) Release of egg*

*iv) Embedding of the embryo in the thickened uterine wall.*

*Which of the following options gives the correct order of sequence in which they occur?*

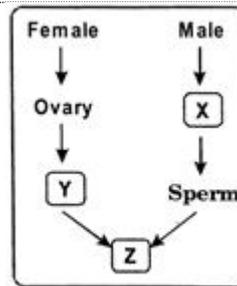
- (a) i, ii, iii, iv,
- (b) ii, i, iii, iv
- (c) i, iv, ii, iii
- (d) ii, iii, i, iv

*6. For the metamorphosis of tadpoles which of the following elements must be available in the water?*

- (a) chlorine
- (b) carbon
- (c) sulphur
- (d) iodine .

7. *Incomplete development of male secondary sexual characteristics is caused due to deficiency in-*

- a) Estrogen.
- b) Progesterone.
- c) Adrenaline.
- d) Testosterone.



8. *What do X, Y and Z represent in the given figure?*

- a) X-Ovum, Y-testes, Z-Ovulation
- b) X-Testes, Y-Ovum, Z-Implantation
- c) X-Ovum, Y-Testes, Z-Implantation
- d) X-Testes, Y-Ovum, Z-Fertilization

9. *Which of the following represents the composition of female destined zygote in human beings?*

- a) 22+X.
- b) 44+XY.
- c) 33+Y.
- d) 44+XX.

10. *Which of the following hormones controls the menstrual cycle, the ovulation process and the development of the uterus in the females?*

- a) Estrogen
- b) Progesterone
- c) Testosterone
- d) Both (A) and (B)

11. Arjun kept losing weight even though he was taking his meals regularly. He felt thirsty all the time. When the doctor tested Arjun's urine, the test showed a high concentration of glucose. What disease is Arjun suffering from?

- a) Goitre.
- b) Cancer.
- c) Diabetes
- d) Cirrohsis of the liver.

12. Which of the following is called the master gland in the human body?

- a) Thyroid
- b) Adrenal
- c) Pancreas
- d) Pituitary

13. A list of mediums is given below

(i) Wood (ii) Water (iii) Air (iv) Vacuum

In which of these mediums can sound travel?

- (a) (i) and (ii)
- (b) (i), (ii) and (iii)
- (c) (iii) and (iv)
- (d) (ii), (iii) and (iv)

14. The speed of sound in solid, liquid and gas can be correctly arranged as-

- a) solid > liquid > gas
- b) liquid > gas > solid
- c) liquid > solid > gas
- d) gas > liquid > solid

15. Statement 1: Velocity of sound depends on temperature.

Statement 2: Sound would travel faster on a hot summer day than on a cold winter day.

Choose the correct option -

- A) Both statements 1 and 2 are true and statement 2 is the correct explanation of statement 1.
- B) Both statements 1 and 2 are true but statement 2 is not the correct explanation of statement 1.
- C) Statement 1 is true and statement 2 is false.
- D) Both statements 1 and 2 are false.

16. Ultrasound has a frequency of vibration-

- (a) between 20 and 20,000 Hz

- (b) below 20 Hz
- (c) above 20,000 Hz
- (d) between 500 and 10,000 Hz

17. The 3 small bones of the middle ear are:-

- A ) malleus, incus, stapes
- B ) malleus, incus, pinna
- C ) malleus, pinna, stapes
- D ) None of the above

18. An echo of the sound produced can be heard only if it reaches our ear after -

- a) 1/ 15th of a second
- b) 1/13 th of a second
- c) 1/10 th of a second
- d) 1/5th of a second

19. Loudness of sound is determined by-

- (a) pitch
- (b) frequency
- (c) amplitude
- (d) time period

20. Voice of man is heavy compared to a woman because

- (a) Female vocal cord is longer
- (b) Male vocal cord is shorter
- (c) Male vocal cord is longer
- (d) The concept is not related

Fill in the blanks with suitable word/s.

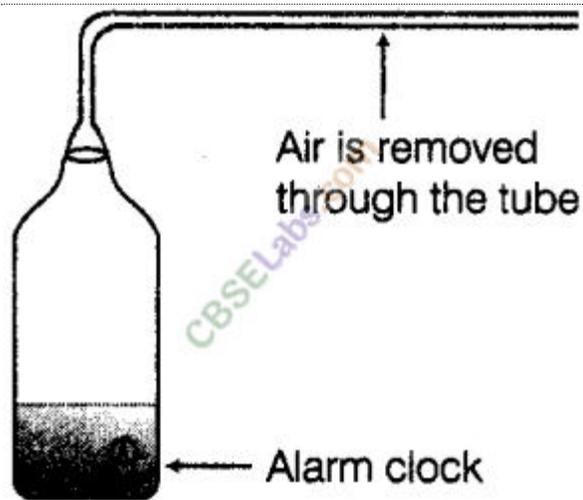
- A) The process of reproduction involving fusion of male and female gametes is called \_\_\_\_\_ reproduction.
- B) Above \_\_\_\_\_ the noise becomes physically painful.
- c) The human voice box is called \_\_\_\_\_.
- D) An ova or egg is a \_\_\_\_\_ cell.
- E) In \_\_\_\_\_ reproduction only a single parent is involved.

State whether the given statements are true or false.

1. Zygote is an unfertilised egg.
2. External fertilisation occurs in frog.
3. A new young one is developed from a cell called gamete.
4. Insulin is secreted by pituitary gland.
5. The chemical substances secreted by endocrine glands are called hormones.
6. Light travels much faster than sound.
7. The time taken to complete one oscillation is called frequency.
8. The pitch of a sound depends in the frequency of the waves.

CONCEPTUAL QUESTIONS-

1. An alarm bell is kept inside a vessel as shown in figure. A person standing close to it can distinctly hear the sound of alarm. Now, if the air inside the vessel is removed completely, how will the loudness of alarm get affected for the same person?



2. Boojho saw a cracker burst at night at a distance from his house. He heard the sound of the cracker a little later after seeing the cracker burst. Give reason for the delay in hearing the sound.

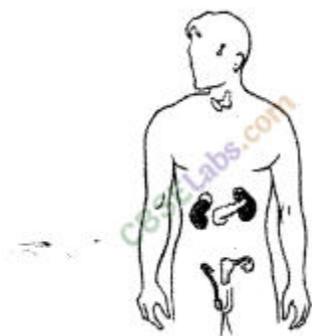
3. Observe the given figure and answer the questions that follow.



- Label A and B.
- Identify the process.
- What happens during the process and what is formed?

4. In figure, mark the positions of the endocrine glands which release the hormones that

- control the release of sex hormones.
- are responsible for the secondary sexual characters in boys.
- prevent diabetes.
- maintain the correct salt balance in the blood.



5. Observe the diagram & answer the following questions.