

# **BRAIN INTERNATIONAL SCHOOL**

**Science Assignment**

**Class: VIII**

**Oct'2024**

## **Chapter -7 Reaching The Age of Adolescence**

### **1. Choose the correct option:**

- (i) Which of these is not a gland of the endocrine system?  
(a) adrenal                      (b) thyroid                      (c) penis                      (d) ovaries
- (ii) Which of these is not a secondary sex characteristic?  
(a) increase in height                      (b) release of testosterone  
(c) voice change                      (d) hair growth on body

### **2. In each of the following questions, two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:**

- a) Both A and R are true, and R is correct explanation of the assertion.  
b) Both A and R are true, but R is not the correct explanation of the assertion.  
c) A is true, but R is false.  
d) Both assertion and reason are false.
- (i) Assertion (A): An adolescent needs a balanced diet.  
Reason (R): Iron rich food is good for adolescents.
- (ii) Assertion (A): Adolescence is the period between childhood and adulthood.  
Reason (R): Adolescence starts at the age of 11 years and adds up to 19 years of age.

### **3. Answer the following questions:**

1. What is the role of hormones in the metamorphosis of frogs?
2. What are the effects of increased activity of sweat and sebaceous glands?
3. In human females, each time during maturation and release of egg the inner wall of uterus thickens. Is this thickening permanent? Give reasons.
4. Mention the changes observed in adolescents with respect to:
  - i. Physical appearance
  - ii. Voice pattern
5. Give a suitable word for each of the following statements.
  - i. The site which responds to a hormone.
  - ii. Name of a gland which transports secretions through ducts.
  - iii. Chemicals which control changes at adolescence stage.
  - iv. It marks the beginning of reproductive period.
6. What are chromosomes? Explain their role in the sex determination in humans?

## **Chapter-10: Sound**

### **1. Choose the correct option:**

1. Voice of which of the following is likely to have minimum frequency.  
(a) baby girl      (b) baby boy      (c) a man      (d) a woman
2. An object is vibrating at 50 hertz. What is its time period?  
(a) 0.02 s      (b) 2 s  
(c) 0.2 s      (d) 20.0 s

### **2. In each of the following questions, two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:**

- a) Both A and R are true, and R is correct explanation of the assertion.
  - b) Both A and R are true, but R is not the correct explanation of the assertion.
  - c) A is true, but R is false.
  - d) Both assertion and reason are false.
- (i) Assertion (A): We produce sound with the help of vocal cords.  
Reason (R): Men have longer vocal cords than women.
- (ii) Assertion (A): Light waves can pass through a vacuum, but sound waves cannot pass through a vacuum.  
Reason (R): This is because the speed of light is less than the speed of sound.

### **3. Answer the following questions:**

1. We have learnt that vibration is necessary for producing sound. Explain why the sound produced by every vibrating body cannot be heard by us?
2. The sound from a mosquito is produced when it vibrates its wings at an average rate of 500 vibrations per second. What is the time period of the vibration?
3. Raj 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.
4. Can sound travel through vacuum? Describe an experiment to explain your answer.
5. Explain the structure and functioning of human ear with the help of diagram.
6. Give reasons:
  - i. Voice of men and women are different.
  - ii. Trees planted along the road reduced noise.
  - iii. We should never put sharp pointed objects in our ear.