

**ST. THOMAS SCHOOL, SAHIBABAD**  
**ANNUAL EXAMINATION (2023-2024)**  
**WORK SHEET**  
**CLASS VIII**  
**SCIENCE (086)**

Time: 3 Hours

MM: 80

**General Instructions:**

- I) This Question paper consists of 39 questions in 5 sections.**
- II) All questions are compulsory.**
- III) Section A consists of 20 objective questions carrying 1 mark each.**
- IV) Section B consists of 6 Very short questions carrying 2 marks each.**
- V) Section C consists of 7 Short Answer type questions carrying 3 marks each.**
- VI) Section D consists of 3 Long Answer type questions carrying 5 marks each.**
- VII) Section E consists of 3 Case Based units of assessment of 4 marks each with sub parts.**
- VIII) Overall choice is not given however internal choice has been provided.**

**SECTION-A**

1. There are \_\_\_\_\_ pairs of chromosomes in human cell. 1  
(a) 23                      (b) 22                      (c) 46                      (d) 48
2. Testes produce \_\_\_\_\_ hormone. 1  
(a) Estrogen              (b) Testosterone      (c) Insulin                      (d) Progesterone
3. Larynx is called \_\_\_\_\_ 1  
(a) Voice box              (b) Oesophagus              (c) Lungs                      (d) Thyroid gland
4. A tadpole develops into an adult frog by the process of \_\_\_\_\_ 1  
(a) Embedding              (b) Budding              (c) Metamorphosis              (d) Fertilisation
5. Eggs are formed in the \_\_\_\_\_ 1  
(a) Testes                      (b) Ovary                      (c) Uterus                      (d) Penis
6. One of the following can hear infrasound. This one is \_\_\_\_\_ 1  
(a) Rhinoceros                      (b) Dog                      (c) Humans                      (d) Bat
7. What is the angle of incidence of a ray if the reflected ray is at an angle of  $90^\circ$  to the incident ray? 1  
(a)  $45^\circ$                       (b)  $60^\circ$                       (c)  $90^\circ$                       (d)  $120^\circ$
8. In the retina of the eye, the area having no sensory cells is called \_\_\_\_\_. 1  
(a) Iris                      (b). Blind spot                      (c) Cornea                      (d) Dark spot
9. The sound in the audible range is called \_\_\_\_\_ 1  
(a) Ultrasonic sound                      (b) sonic sound                      (c) subsonic sound                      (d) light sound
11. What is the length of vocal cords in men? 1  
(a) 5 mm                      (b) 10 mm                      (c) 15 mm                      (d) 20 mm

12. Which of these is a solid pollutant? 1
- (a) SPM (b) Carbon monoxide (c) Sulphur dioxide (d) Nitrogen oxides
- To extinguish a flame, which of these methods can be used? 1
- (a) Reduce temperature to below ignition temperature  
(b) Remove combustible substance  
(c) Cut off air supply  
(d) Any one of these.
- 14 In which of these is current not conducted by electrons? 1
- (a) Copper (b) Aluminium (c) Tap water (d) Mercury
- 15 Electric current is the flow of particles with 1
- (a) A negative charge  
(b) A positive charge.  
(c) Both positive and negative charges flowing to each other.  
(d) Either positive or negative charge depending on the material.
- 16 Which of the following is not a conductor of electricity? 1
- (a) Tap water (b) Salt water (c) Petrol (d) Lime juice

Read the Assertion and Reason statements carefully and mark the correct option out of the following options: (Q. Nos. 17-20)

- (a) Assertion and Reason are true and Reason is the correct explanation of Assertion  
(b) Assertion and Reason are true but Reason is not the correct explanation of Assertion  
(c) Assertion is true, but Reason is false  
(d) Assertion is false but Reason is true.
17. Assertion: Estrogen is male hormone. 1  
Reason: The chemical secreted by endocrine glands are called hormones.
18. Assertion: Rainbow is the natural phenomenon of dispersion. 1  
Reason : Rainbow consist seven colour of light splitting into its colour.
20. Assertion: Magnesium and charcoal are combustible substances. 1  
Reason: a chemical process in which a substance reacts with oxygen to give off heat is called combustion.

#### SECTION-B

22. What are secondary sexual characters in females? 2
- OR
- Explain the process of fertilisation in frog

23. Prepare a list of objects around you that are electroplated. 2
24. Define Ignition temperature of a substance. 2
25. A simple pendulum makes 20 oscillations in 40 seconds. What is the time period and frequency of its oscillation? 2
26. Draw a labelled diagram showing how a plane mirror forms an image of a point object placed in front of it. 2

### SECTION-C

27. Draw a labelled diagram to show the location of various endocrine glands in human body. 3
28. What is reproduction? Explain its various modes. 3
29. Draw a diagram of human sperm and label the parts. 3
30. Why do you have to use paper or kerosene oil to start a fire in wood or coal? 3
31. In case of a fire, before the firemen use the water hoses, they shut off the main electrical supply for the area. Explain why they do this. 3
32. Explain how, noise pollution is harmful to human beings. State the various measures which can be taken to control noise pollution in our surroundings. 3
33. Differentiate between optical aids and non-optical aids used by visually impaired person to enhance their capabilities along with examples. 3

### SECTION-D

- 34.(i) Explain the life cycle of a frog with labelled diagram. 5
- (ii) What is metamorphosis? 5
36. Draw a labelled diagram of human eye. Explain the function of three parts of human eye. 5

### SECTION-E

#### **Case Based Question**

Answer the questions on the basis of your understanding of the following passages and related studied concepts: (Q. Nos. 37-39)

37. At the time of maturation of ovaries, the eggs are released by ovaries. One egg is released at a time, If the egg is not fertilised, the released egg and thickened lining of the uterus along with its blood vessels are shed off.
- (i) What is puberty? 1
- (ii) What is protruding part of the throat in boys called? 1
- (iii) Explain menarche and menopause. 2
38. Amplitude and frequency are two important properties of any sound. The loudness of sound depends on its amplitude. When the amplitude of vibration is large, the sound produced is

loud. When the amplitude is small, the sound produced is feeble.

- (i) What is amplitude? 1
  - (ii) How loudness is related to amplitude? 1
  - (iii) What is the unit of loudness? 1
  - (iv) What is the loudness of sound produced while normal conversation? 1
39. As solids conduct electricity, some liquids, like acids, bases and salts, also conduct electricity. When electricity is passed through a copper wire which is a solid, no chemical changes take place, but when passed through acidified water, chemical changes take place in which water decomposes into hydrogen and oxygen gas.
- (i) Do liquids also conduct electricity? 1
  - (ii) Name a device which glows even when a weak electric current pass through it. 1
  - (iii) Write the full form of LED. 1
  - (iv) One example of the Give chemical effect of electric current. 1