



**FACULTY HIGHER SECONDARY SCHOOL**  
**SAMPLE QUESTION PAPER 2019-20**  
**SUBJECT: SCIENCE**  
**CLASS: VII**  
**FULL MARKS : 50**

This question is divided into four sections.

Section A: - Question number 1 to 15 carry one mark each.

Section B: - Question number 16 to 20 carry one mark each.

Section C: - Question number 21 to 25 carry one mark each.

Section D: - Question number 26 and 27 carry one mark each.

**SECTION A**

Choose the correct answer :-

Q 1). Which of the following gas is used in photosynthesis:-

- a) Nitrogen                      b) Oxygen                      c) Carbon dioxide                      d) Hydrogen.

Q 2.) Xylem carries water and minerals salts from ---

- a) Leaves to roots      b) Roots to leaves      c) Stem to leaves      d) Leaf to other leaves.

Q 3). which of the following is a bad conductor of heat.

- a) Copper                      b) Air                      c) Silver                      d) Gold.

Q 4). Image formed in plane mirror is

- a) Inverted                      b) Lateral inverted      c) Erect                      d) both a and c.

Q 5). Image that cannot be taken on the screen is called \_\_\_\_\_ image. (Real/ virtual)

6). Automobiles use \_\_\_\_\_ mirror to see the rear view. (concave/convex).

Q 7). Breathing is slowest in which of the following activity:-

- a) Reading                      b) Writing                      c) Talking                      d) Sleeping.

Q 8). Which of the following is not associated with the process of respiration.

- a) Lung                      b) Alveoli                      c) Trachea                      d) Kidney.

Q 9). Which acid cause's muscles cramp in a person while running?

- a) Acetic acid                      b) Citric acid                      c) Formic acid                      d) Lactic acid.

Q 10). Bases turn yellow turmeric paper to-

- a) Red                      b) Yellow                      c) Pink                      d) Green

Q 11). To cure indigestion, which of the following base you will drink to neutralize the effect ?

- a) Sodium hydroxide                      b) magnesium hydroxide                      c) calcium hydroxide                      d) calcium oxide.

Q 12). Acid which is used to mixed with baking powder in making cakes and biscuits.

- a) Lactic acid                      b) Amino acid                      c) Tartaric acid                      d) Tannic acid.

Q 13). Dentist use \_\_\_\_\_ mirror to examine enlarge image of teeth. (Concave/ convex)

Q14). Which of the following is mineral acid

- a) Nitric acid    b) oxalic acid    c) Acetic acid    d) Tannic.

Q15). Bouncing back of light which fall on the surface of an object is called \_\_\_\_\_. (refraction/reflection)

### SECTION B

Q16). What are haustoria? Write its function. 2

Ans:- Haustoria are a special structure of cuscuta plant which pierces into the plants body of the host.

The function of haustoria is to derive nutrition from the host for survival.

Q17). Write one uses of acid and base in industry. 2

Q18). Give reasons:- 2

a) Convex mirror is used as vigilance mirror.

b) Convex mirror is used for reading glass.

Q19). Give two characteristic of wool. 2

Q20). Differentiate between breathing and respiration. 2

### SECTION C

Q21). Explain the process of respiration in the roots of plants? 3

Q 22). What is meant by dispersion of light? With the help of diagram, show the dispersion of white light. 1+2=3

Q 23) What is sea breeze? How it is set up? 1+2=3

Q24). What is symbiosis? How do rhizobium bacteria and leguminous plant help each other in survival? 1+2=3

Ans:- When two different organisms live together in an association and work together for their mutual benefits is called symbiosis.

Rhizobium bacteria live inside of the roots nodules of leguminous plant .

Rhizobium provide nitrogen in a soluble form to the plant as natural fertilizer and in return leguminous plant provide food and shelter to the bacteria. Thus both organisms benefit each other.

Q25.) What is meant by selective breeding? Why is shearing done in summer? 1+2=3

**SECTION D**

Q26) Draw the structure of laboratory thermometer. Describe the construction of laboratory thermometer.

2+3=5

Ans :- Diagram of a laboratory thermometer.

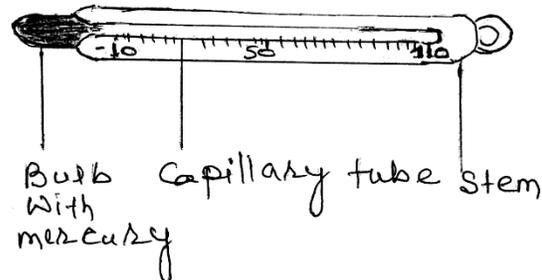


Fig:- A laboratory thermometer.

A laboratory thermometer is used in a laboratory for measuring temperature while performing experiment. It consists of a fine capillary tube, protected thick glass tube and mercury. The capillary tube is protected by glass tube. the lower end of the capillary tube is converted into a glass filled with mercury and the upper end of this tube is sealed. The glass stem is marked in with temperature range  $-10^{\circ}\text{C}$  to  $110^{\circ}\text{C}$ . The upper fixed point is  $100^{\circ}\text{C}$  or  $110^{\circ}\text{C}$  and lower fixed point is  $0^{\circ}\text{C}$  or  $-10^{\circ}\text{C}$ . When the thermometer is in contact with the body, the mercury level in the capillary tube raises up. Thus when the thermometer comes in contact with cold body mercury contracts and comes down.

Q27) Describe the process of respiration in any two of the following organism

2½ + 2½ = 5

- a) Frog    b) Fish    c) Insects.