**SINDHI HIGH SCHOOL, HEBBAL**

**HALF YEARLY EXAMINATION ( 2023-24)**

**SUBJECT: SCIENCE**

**CLASS : 4 MAX MARKS - 80**

**DATE : TIME – 2hrs 30 mins**

**SECTION A**

1) **Choose the correct answer from the options given below (½ X10 = 5M)**

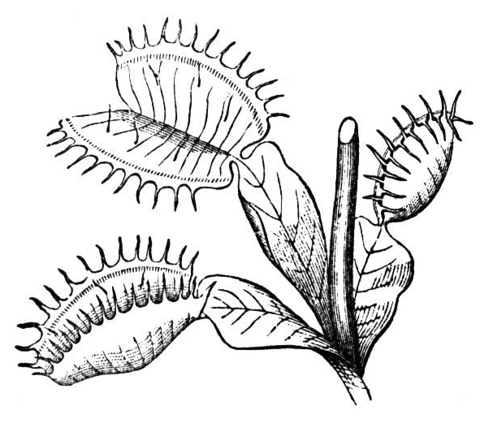
i) Small openings on the under surface of a leaf is known as\_\_\_\_

a) stem b) root c) fruit d) stomata

ii) Removing the green colour in a leaf is called

a) respiration b) breathing c) bleaching d) colouring

iii) Identify the given plant



a) sundew b) dodder c) venus flytrap d) pitcher plant

iv) \_\_\_\_\_\_\_\_\_\_\_\_\_tree sheds its leaves in autumn.

a) teak b) sheesham c) palm d) rubber

v) Taking of food in the mouth is called\_\_\_\_\_\_

a) egestion b) ingestion c) digestion d) absorption

vi) Which of the following is not a method of preservation.

a) pickling b) washing c) pasteurization d) drying

vii) An adult has \_\_\_\_\_permanent teeth.

a) 22 b) 30 c) 32 d) 20

viii) Which of the following microbes are used to make curd?

a) bacteria b) fungi c) protozoa d) viruses

ix) When we beat a drum our \_\_\_\_\_\_energy changes into sound energy.

a) chemical b) muscular c) heat d) light

x) A rough surface will cause \_\_\_\_\_\_\_

a) less friction b) no friction c) more friction d) very less friction

**2) Name the following 1X5=5M**

a) Excess of carbondioxide gas in the atmosphere leads to –

b) Place where an organism lives –

c) The process of preventing food from getting spoilt –

d) Disease-causing microbes are called –

e) Ability of the body to do work is called –

3) **Fill in the blanks** 1X5=5M

a) Plants depend on animals for \_\_\_\_\_and seed dispersal.

b) \_\_\_\_\_\_\_\_holds the soil and protect it from being washed away.

c) The doctor who takes care of our teeth is known as \_\_\_\_\_\_.

d) The push or pull applied on an object is known as \_\_\_\_\_\_\_.

e) A simple machine called \_\_\_\_\_\_\_ is used to draw water from wells.

4) **What happens when?** 1X2=2M

a) Animals increase suddenly in nature.

b) Iron nails are brought near a magnet.

5) Give reason 1X2=2M

a) Mangroves have breathing roots

b) We need to brush our teeth twice a day.

6) **Give 2 examples for each** 1X5=5M

a) Plants that grow in grasslands-

b) Food rich in proteins-

c) Diseases caused by virus –

d) Two conditions required for the growth of microbes-

e) Magnetic force -

7) **Analogy**  1X5=5M

a) Carrot : roots :: \_\_\_\_\_flower.

b) Pistia : floating plant :: \_\_\_\_\_: fixed aquatic plant.

c) Pneumonia : bacteria :: \_\_\_\_\_\_: ringworm.

d) Iodine : iodised salt :: iron : \_\_\_\_\_\_\_.

e) Sun : solar energy :: water: \_\_\_\_\_\_\_.

**SECTION B**

**Answer the following 2X5=10**

8) a) Define nutrients.

b) Name the vitamin that helps in

i) night vision –

ii) clotting of blood from any injury –

9) Differentiate between temporary teeth and permanent teeth.

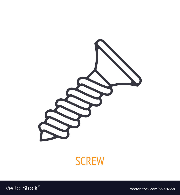
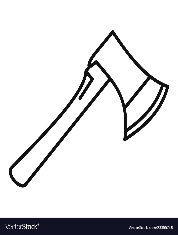
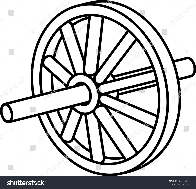
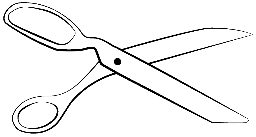
Or

Complete the following

|  |  |  |
| --- | --- | --- |
| **Types of teeth** | **No. of teeth in each jaw** | **Function** |
| Incisors | a) \_\_\_\_\_\_\_\_\_\_\_\_ | Cutting teeth |
| b) \_\_\_\_\_\_\_\_\_\_\_\_\_ | 2 | Tearing teeth |
| Premolars | 4 | c) \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Molars | d) \_\_\_\_\_\_\_\_\_\_\_\_ | Grinding teeth |

10) Describe the adaptive features of a pitcher plant.

11) Identify the type of simple machines

a)  b)  c)  d) 

12) Suggest any 4 good eating habits.

**SECTION C 3X7=21**

13) Write any 3 effects of force.

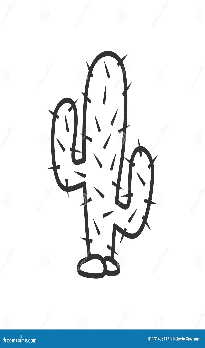
14) Name the method of cooking in this food items.

a) Idly, dhoklas –

b) Poories , pakoras –

c) Cakes, breads –

15) List any 3 function of a leaf.

16) 

a) Identify the plant in the above given pictures.

b) Write any 2 adaptation of the same.

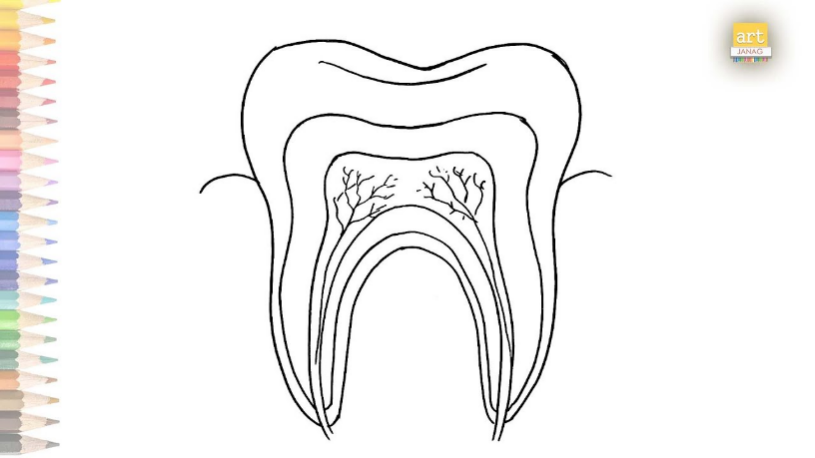
17) a) Give reason, A ball thrown high in the air comes back on earth.

b) Name the type of force involved in the following

i) An elephant lifting loads –

ii) Pieces of paper get attracted to a comb –

18) Draw a neat labelled diagram of a leaf.

19) 

**SECTION D 5X4=20**

20) a) Name any 2 plants that grow in hilly areas. 1M

b) Write any 4 adaptive features of plants grow here. 4M

21) a) Name the instrument used to see microbes. 1M

b) In what ways microbes are useful to us (any 4) 4M

22) a) Name any 2 non-green plants 1M

b) Why they are not green in colour. 1M

c) Where do they get food from ? 1M

d) During photosynthesis leaf gives out \_\_\_\_\_\_\_gas 1M

e) \_\_\_\_\_\_\_is a parasitic plant. 1M

23) a) Define digestion. 1M

b) \_\_\_\_\_\_\_\_\_glands secrete saliva which breaks carbohydrates into sugar. 1M

c) Identify the organs of digestion in digestive system. 3M

